ORDER NO. AD9201005C0
A2

Service Manual

Cassette Deck

Dolby NR-Equipped Stereo Double Cassette Deck

RS-TR333

DOLBY B·C NR HX PRO*

* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Colour

(K)... Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)
(PC)	Canada.	
(EB)	Great Britain.	
(EG)	Germany and Italy./ Continental Europe.	
(GC)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	
(PX)	Far East-PX	

RS-T330R MECHANISM SERIES (AR300)

SPECIFICATIONS

■ CASSETTE DECK SECTION

Deck system Stereo cassette deck
Track system 4-track, 2-channel
Recording system AC bias
Bias frequency 80kHz
Erasing system AC erase
Heads
Deck 1 Playback head (Permalloy)×1
Deck 2 Recording/Playback head (Permalloy)×1
Erasing head (Double-gap ferrite)×1
Motors
Deck 1 Capstan/reel table drive (DC servo motor)×1
Deck 2 Capstan/reel table drive (DC servo motor)×1
Tape speed 4.8cm/sec. ($1^{7}/_{8}$ ips)
Wow and flutter
For (P, PC) areas 0.1% (WRMS)
For others 0.07% (WRMS)
±0.2% (DIN)
Fast forward and rewind times
Approx. 110 seconds with C-60 cassette tape
Frequency response (Dolby NR off)
NORMAL 40Hz~15kHz±3dB
For (P, PC) areas 20Hz~17kHz
For others 20Hz~16kHz (DIN)
CrO_2 40Hz~15kHz±3dB
For (P, PC) areas 20Hz~17kHz
For others 20Hz~16kHz (DIN)
METAL 40Hz~16kHz±3dB
For (P, PC) areas 20Hz~18kHz
For others 20Hz~17kHz (DIN)
S/N (Signal level=max recording level, CrO_2 type tape)
NR off 56dB (A weighted)
Dolby B NR on 66dB (CCIR)
Dolby C NR on 74dB (CCIR)
Input sensitivity and impedance
LINE IN 60mV/47kΩ
Output voltage and impedance
LINE OUT 400mV/800Ω
HEADPHONES 30mV/(8Ω)
(Load impedance 8Ω~600Ω)

■ GENERAL

Power consumption 19W
Power supply
For (P, PC) areas AC 60Hz, 120V
For (GC, PX) areas AC 50/60Hz, 110V/127V/220V/240V
For ohters AC 50/60Hz, 230−240V
Dimensions (W×H×D) 430×136×290mm
($16^{15}/_{16}$″×$5^{3}/_{8}$″×$11^{13}/_{32}$″)
Weight 4.7kg (10.4lb.)

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

Technics

■ CONTENTS

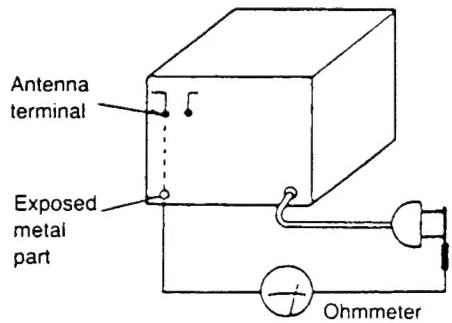
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barries, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

•INSULATION RESISTANCE TEST

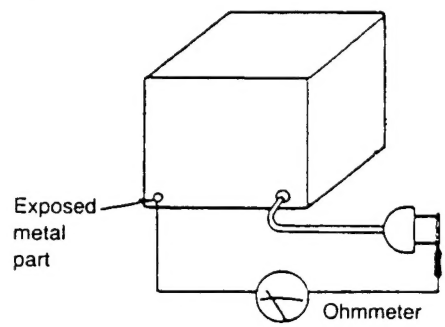
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance=3 MΩ–5.2 MΩ

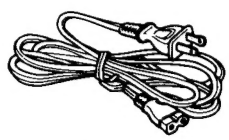


(Fig. B)

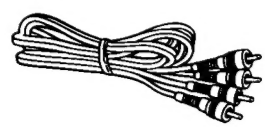
Resistance=Approx. ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

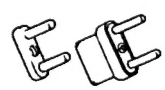
■ ACCESSORIES



AC power supply cord
(RJA0004)..... (GC, PX)
(RJA0019-1K)..... (EG)
(SJA172)..... (PC)
(SJA173)..... (GN)
(SJA175-1)..... (P)
(SJA193)..... (EB)
..... 1 pc.



Stereo connection cable
(SJP2249-3) ..... 2 pcs.



Power plug adaptor
(SJP9215)..... 1 pc.
(For GC, PX areas only)

Stereo mini cable
(SJP2257T) ..... 2 pcs.

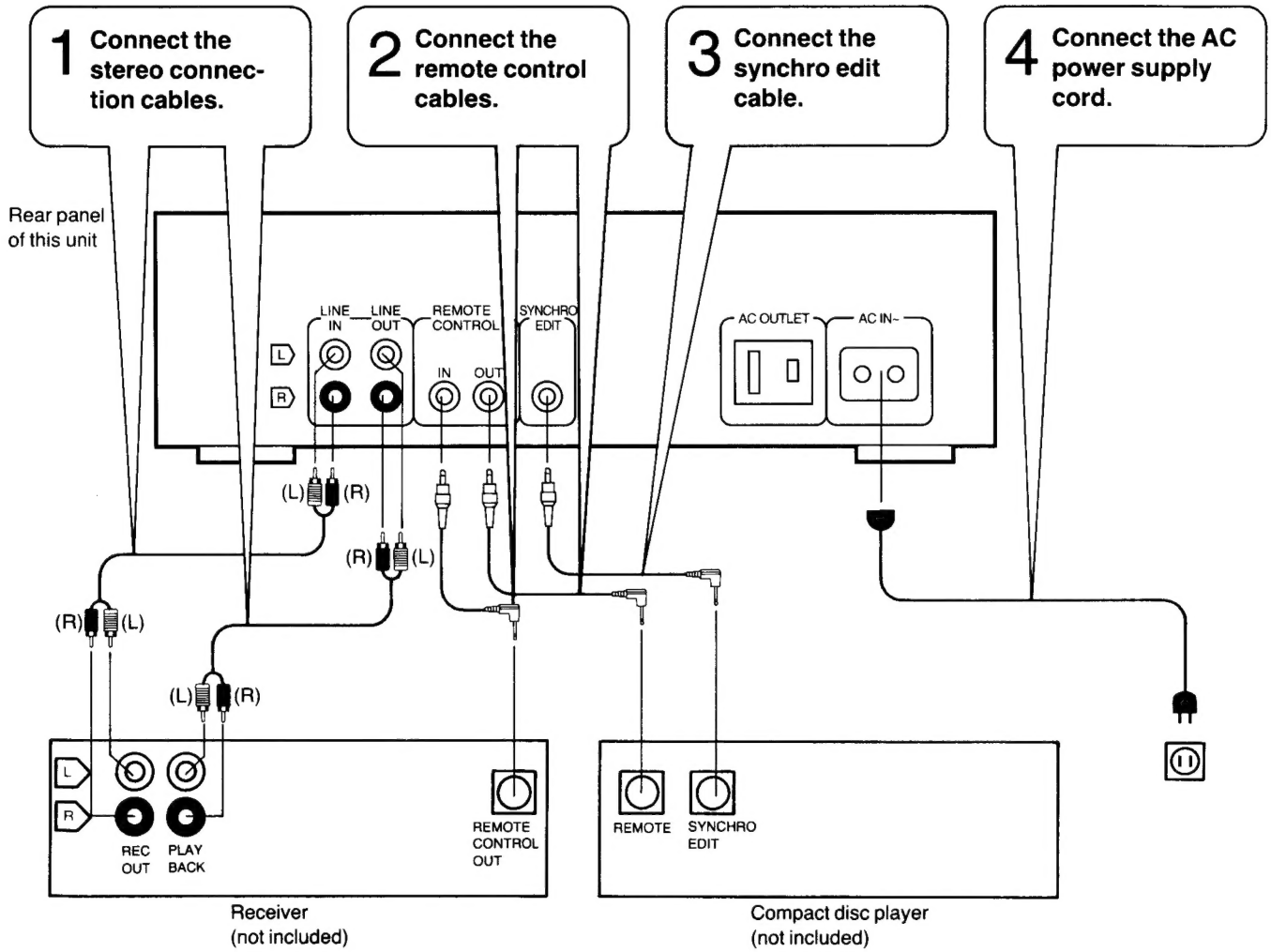
Remote control cable ..... 1 pc.

Synchro edit cable ..... 1 pc.

Note: Configuration of AC power supply cord differs according to area.

■ CONNECTIONS

Before making connections, be sure that the power to this unit and all other system components are turned off first.
See the operating instructions of the receiver or the compact disc player for details.



1 Connect the stereo connection cables (included) to the REC OUT and PLAYBACK terminals of the receiver.

2 Use the included remote control cable to connect the REMOTE CONTROL INput to the REMOTE CONTROL OUTput on the Receiver.

The following functions can be operated by remote-control (When connected to the appropriate Technics receiver): Playback, Stop, Pause, Rewind/fast-forward search, Record, Auto record mute, and 1–2 (A-B) deck selection.

The REMOTE CONTROL "OUT" terminal is provided to connect a Technics Conpact Disc Player or Graphic Equalizer.

3 Connect the synchro edit cable (included) to the "SYNCHRO EDIT" terminal of selected Technics compact disc player.

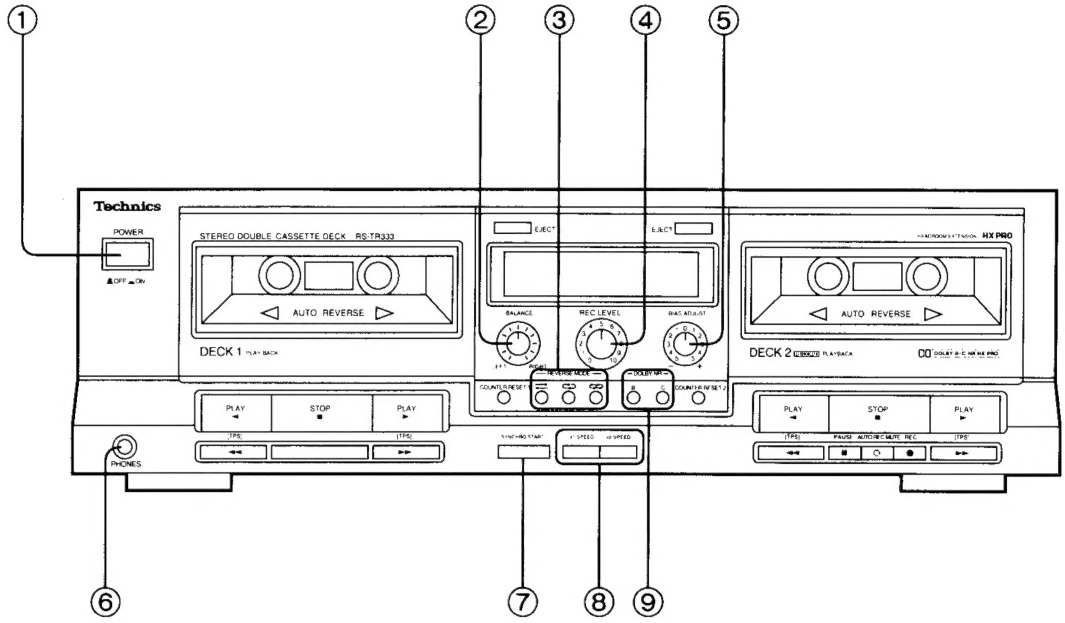
4 Connect the power supply cord (included) to the household AC outlet (AC 120 V/60 Hz, P, PC areas only).

The REMOTE CONTROL and SYNCHRO EDIT terminals can only be used with selected Technics Components. Please contact your dealer for details.

"AC OUTLET" (UNSWITCHED: P, PC areas only)

Power is always available, regardless of the unit's power switch setting. Audio equipment rated up to 100 W can be connected.

■ LOCATION OF CONTROL



Control section

Controls common to both tape decks

① Power switch (POWER)...For P, PC areas
Press (▙▁▄) to switch the power on.
Press again (▄▁▙) to switch the power off.

Power "STANDBY ⏻ /ON" switch...For others (POWER ▙ STANDBY ⏻ ▄ ON)
This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY ⏻ position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② Recording-balance control (BALANCE)
This control is used to balance the left and right sound levels of deck 2 during recording.

③ Reverse-mode selectors (REVERSE MODE)
These selectors are used for selection of the reverse mode (for either playback or recording).

④ Recording-level control (REC LEVEL)
This control is used to regulate the recording level of deck 2

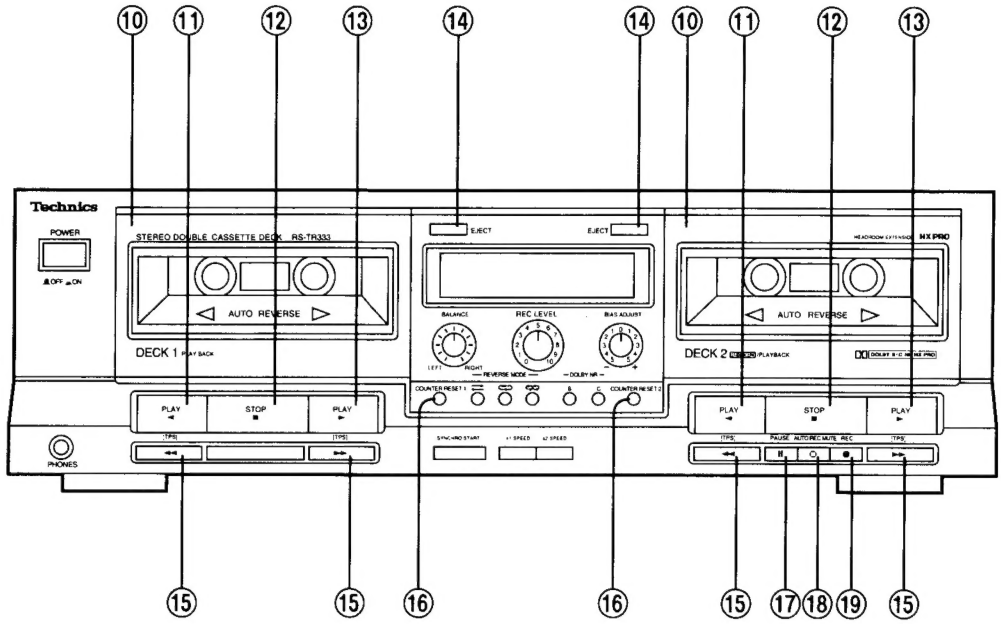
⑤ Bias-adjustment control (BIAS ADJUST)
The frequency response for each tape type can be equalized by using this control (for only deck 2).

⑥ Headphones jack (PHONES)

⑦ Synchro-start button (SYNCHRO START)
This button is used to start a edit-recording, simultaneously starting deck 1 (the playback deck) and deck 2 (the recording deck).

⑧ Edit-recording tape-speed buttons (×1 SPEED, ×2 SPEED)
These buttons are used to select the recording speed during edit-recording.

⑨ Dolby noise-reduction buttons (DOLBY NR)
These buttons are used to reduce the hissing noise heard from the tape. This unit is provided with both the B-type and C-type noise-reduction systems.



Controls applicable to tape deck 1 and/or 2

⑩ Cassette holder

⑪ Reverse-side playback button (◀ PLAY)
This button is used to start the playback or recording (of deck 2 only) of side "B" of the cassette.
(The tape will move in the right-to-left direction.)

⑫ Stop button (■ STOP)
This button is used to stop the tape movement.

⑬ Forward-side playback button (▶ PLAY)
This button is used to start the playback or recording (of deck 2 only) of side "A" of the cassette.
(The tape will move in the left-to-right direction.)

⑭ Eject button (EJECT)
This button is used to open the cassette holder.

⑮ Rewind/fast-forward search button (◀◀/▶▶ TPS)
These TPS (Tape Program Search) buttons are used to advance or rewind the tape, or to easily and quickly search for the program's beginning of the tape.

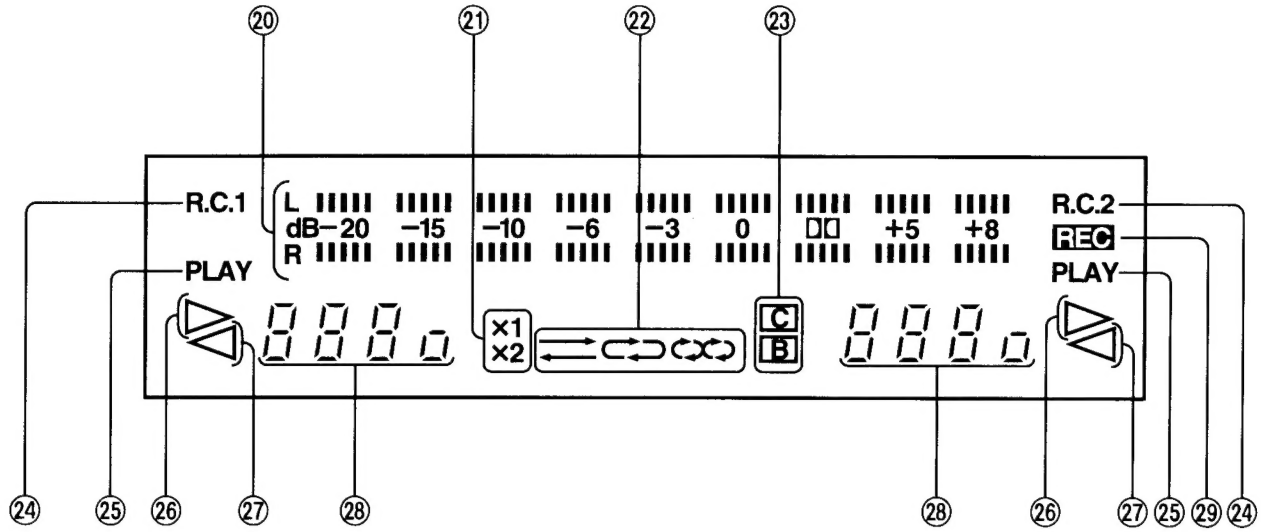
⑯ Tape counter reset button (COUNTER RESET 1, COUNTER RESET 2)
This button is used to reset the tape counter indication to "000".

⑰ Pause button (❚❚ PAUSE)
This button is used to temporarily stop the tape playback or recording of deck 2 only.

⑱ Automatic-record-muting button (○ AUTO REC MUTE)
This button is used to make a silent interval on the tape while recording is in progress on deck 2.

⑲ Record button (● REC)
This button is used to set deck 2 to the recording stand-by mode.

(Continued on next page)



Display section

Indicators common to both tape decks

⑳ **Input level meter**
During playback, this meter indicates the level of the recorded sound.
During recording, it indicates the level being recorded, adjusted by the recording-level control.

㉑ **Edit-recording tape-speed indicators (×1, ×2)**
One of these indicators illuminates to show which of the edit recording speeds was selected by pressing one of the edit-recording tape-speed buttons.

㉒ **Reverse-mode indicators (⇄ , ⊂⊃ , ∞)**
Each indicator illuminates to show which of the reverse modes was selected by the reverse-mode selectors.

㉓ **Dolby noise-reduction indicators (B, C)**
Each indicator illuminates to show the type of Dolby noise-reduction system selected by pressing one of the Dolby noise-reduction buttons.

Indicators applicable only to tape deck 1 or 2

㉔ **Remote-control indicator (R.C.1, R.C.2)**
Illuminates to indicate that this unit can now be controlled by the remote-control transmitter of the appropriate receiver connected.

㉕ **Playback indicator (PLAY)**
When this indicator illuminates steadily, it indicates that this unit is in the playback or recording mode (of deck 2 only).
When flashing continually, indicates that deck 2 is in the pause mode or in the recording stand-by mode.

㉖ **Forward-side indicator (▷)**
Illuminates during playback or recording (of deck 2 only), to indicate that side "A" of the tape is being used.

㉗ **Reverse-side indicator (◁)**
Illuminates during playback or recording (of deck 2 only), to indicate that side "B" of the tape is being used.

㉘ **Tape counter**
Indicates the amount of tape movement.
The least significant digit indicates tape movement.

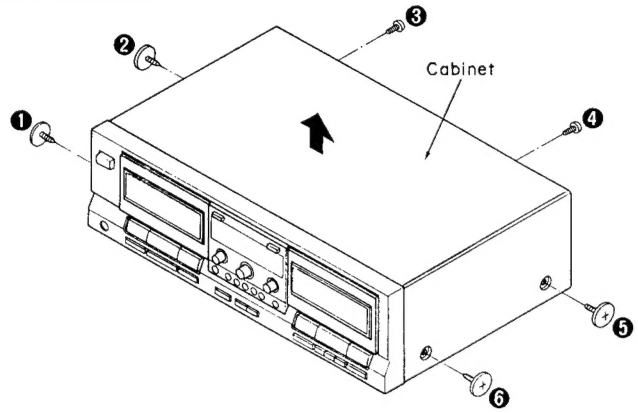
㉙ **Recording indicator (REC)**
Illuminates to indicate that deck 2 is in the recording stand-by mode or is recording.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet

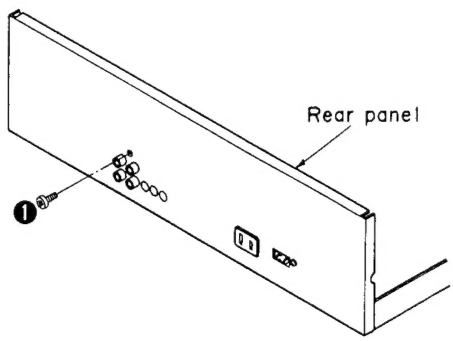
Procedure 1

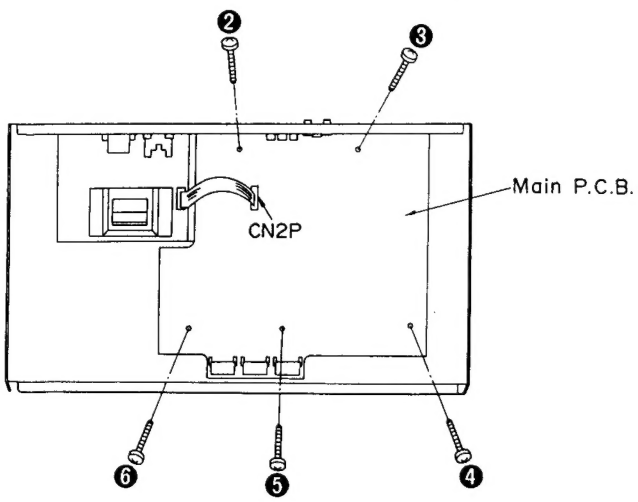


• Remove the 6 screws (❶~❻).

Ref. No. 3	Removal of the Main P.C.B.

Procedure 1→2→3

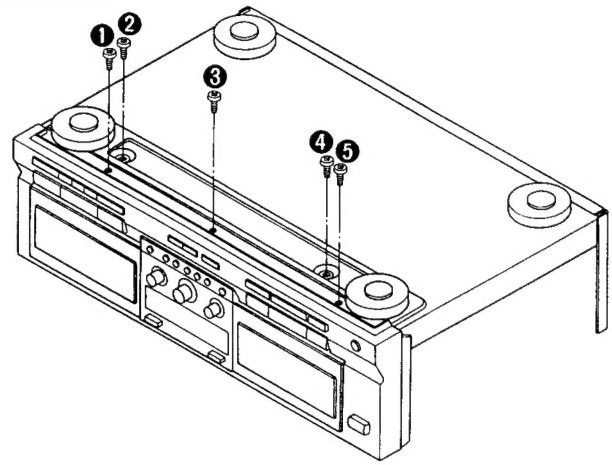




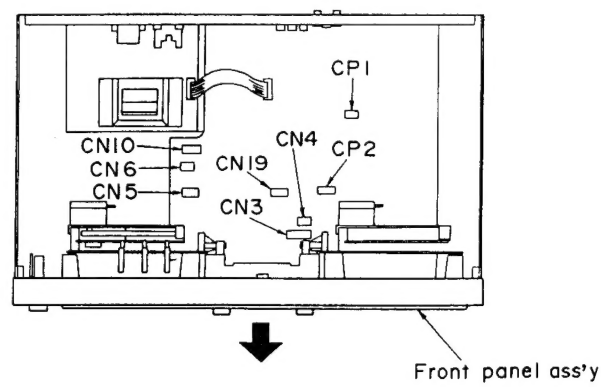
1. Remove the 6 screws (❶~❻)
2. Remove the 1 flat cable (CN2P).

Ref. No. 2	Removal of the Front Panel Ass'y

Procedure 1→2



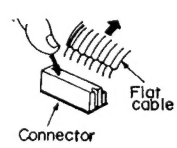
1. Remove the 5 screws (❶~❺).



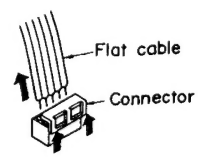
2. Remove the 2 connectors (CP1, CP2).
3. Remove the 6 flat cables (CN3, CN4, CN5, CN6, CN10, CN19).
4. Remove the front panel ass'y in the direction of arrow.

How to remove the Flat Cable

• Pull out the flat cable while pressing the connector. (CN3, CN5)

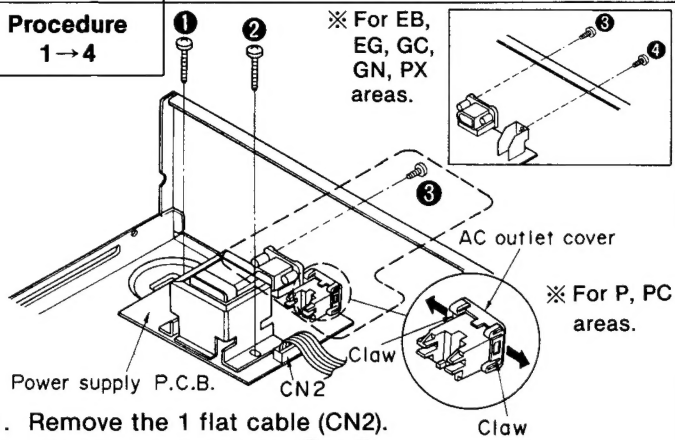


1. Lift the connector.
2. Pull out the flat cable. (CN4, CN6, CN10)



Ref. No. 4	Removal of the Power Supply P.C.B.

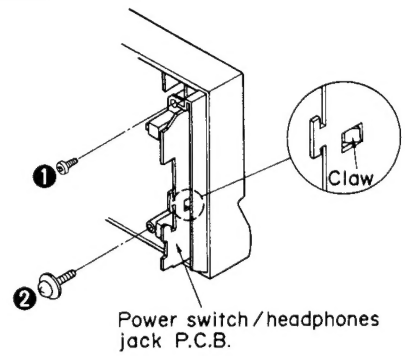
Procedure 1→4



1. Remove the 1 flat cable (CN2).
2. Remove the 3 screws (❶~❸).
3. Remove the 1 screw (❹).
   (For EB, EG, GC, GN, PX areas)
4. Release the 2 claws of the AC outlet cover.
   (For P, PC areas)

Ref. No. 5	Removal of the Power Switch Headphones Jack P.C.B.

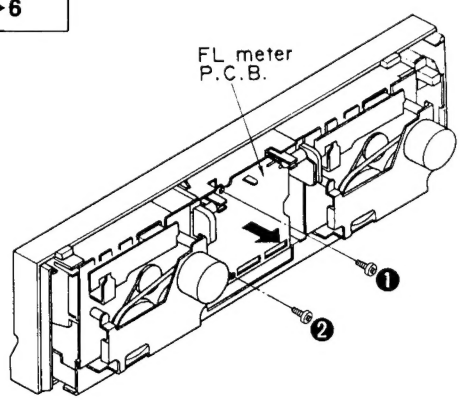
Procedure 1→2→5



1. Remove the 2 screws (❶, ❷).
2. Release the 1 claw.

Ref. No. 6	Removal of the FL Meter P.C.B.

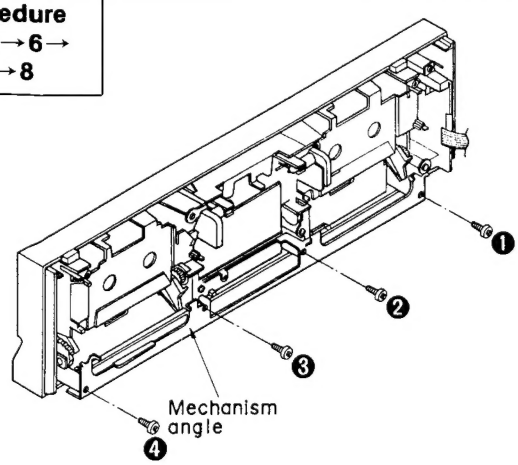
Procedure 1→2→6



1. Remove the 2 screws ((❶, ❷).
2. Remove the FL meter P.C.B. in the direction of arrow.

Ref. No. 8	Removal of the Mechanism Angle

Procedure 1→2→6→7→8



• Remove the 4 screws (❶~❹).

Ref. No. 7	Removal of the Mechanism Units (DECK 1, DECK 2)

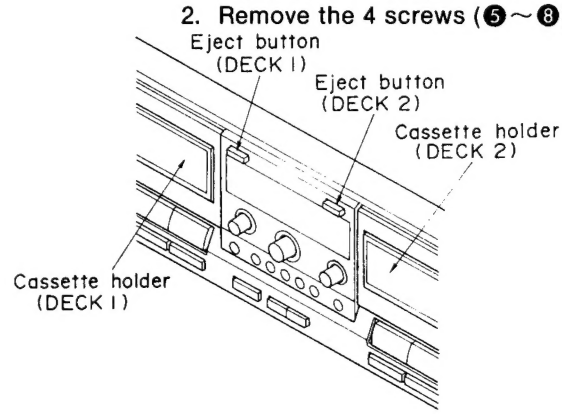
Procedure 1→2→7

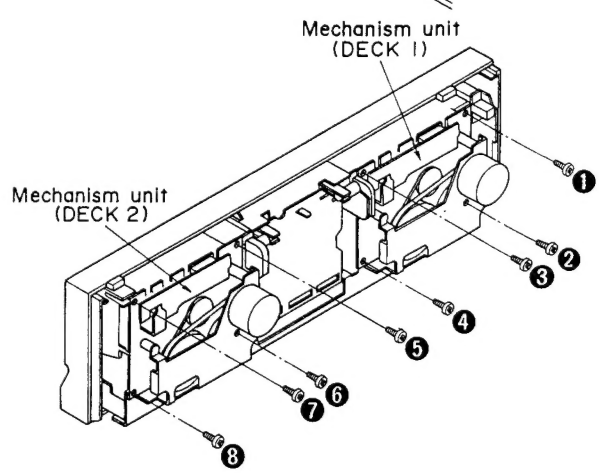
■ **Mechanism Unit (DECK 1)**

1. Press the eject button and open the cassette holder.
2. Remove the 4 screws (❶~❹).

■ **Mechanism Unit (DECK 2)**

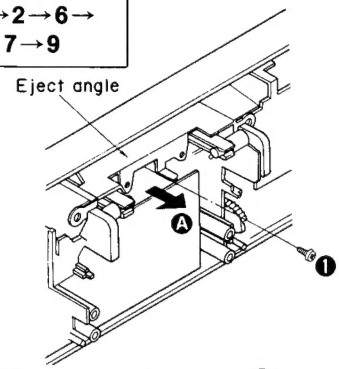
1. Press the eject button and open the cassette holder.
2. Remove the 4 screws (❺~❽).

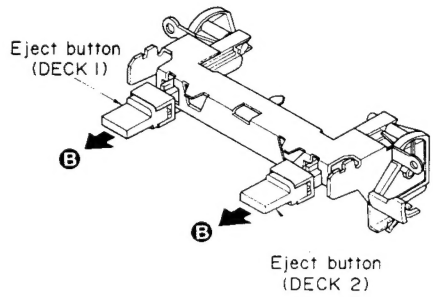


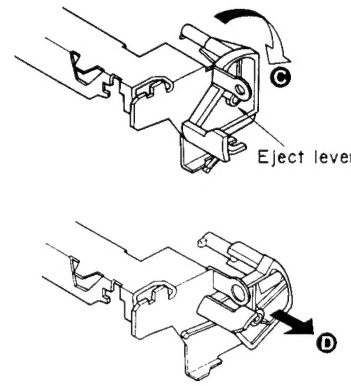


Ref. No. 9	Removal of the Eject Angle, Eject Buttons, and Eject Lever

Procedure
1→2→6→7→9



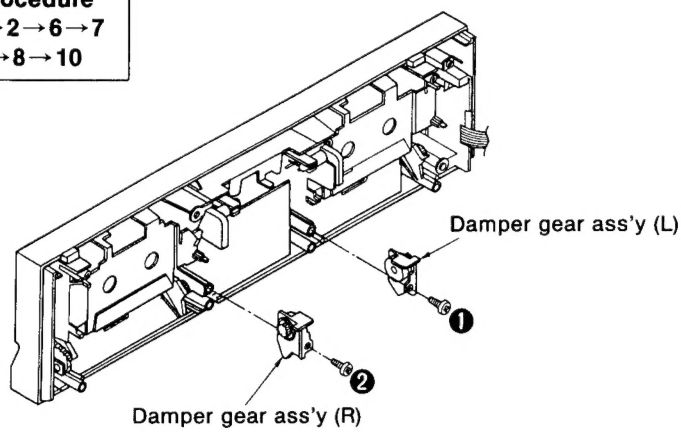


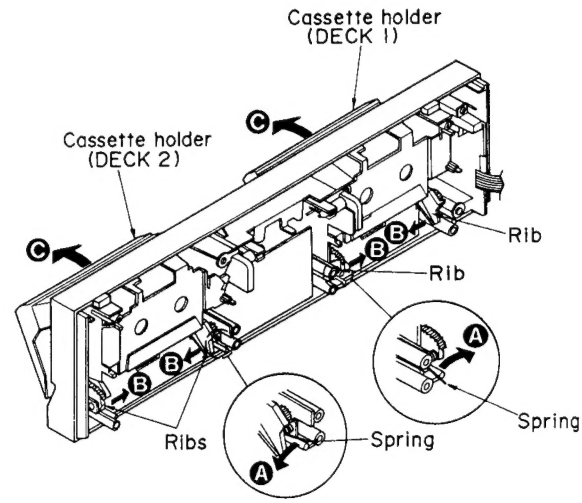


1. Remove the 1 screw (❶).
2. Pull out the eject angle in the direction of arrow Ⓐ.
3. Pull out the eject buttons in the direction of arrow Ⓑ.
4. Turn the eject lever in the direction of arrow Ⓒ, and remove the eject lever in the direction of arrow Ⓓ.

Ref. No. 10	Removal of the Cassette Holder (DECK 1, DECK 2)

Procedure
1→2→6→7→8→10

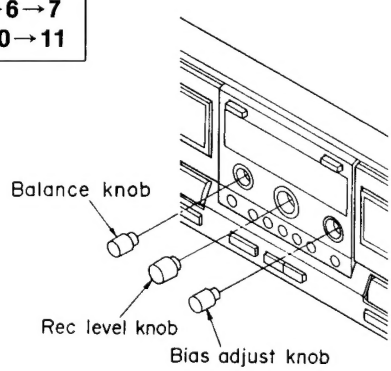


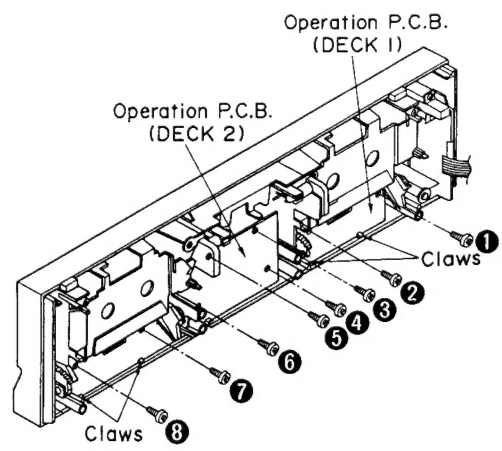


1. Remove the 2 screws (❶, ❷).
2. Remove the damper gear ass'y (L) and damper gear ass'y (R).
3. Remove the spring in the direction of arrow Ⓐ.
4. Remove the ribs in the direction of arrow Ⓑ.
5. Remove the cassette holder in the direction of arrow Ⓒ.

Ref. No. 11	Removal of the Operation (DECK 1) P.C.B. and Operation (DECK 2) P.C.B.

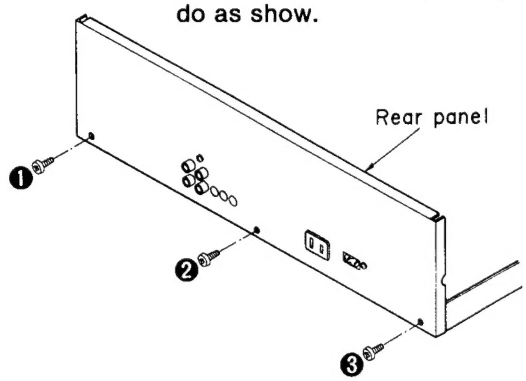
Procedure
1→2→6→7→8→10→11



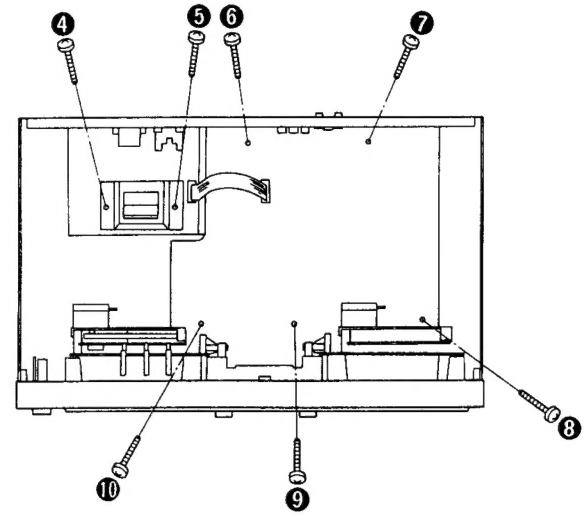


1. Remove the balance knob, rec level knob and bias adjust knob.
2. Remove the 8 screws (❶~❽).
3. Release the 4 claws.

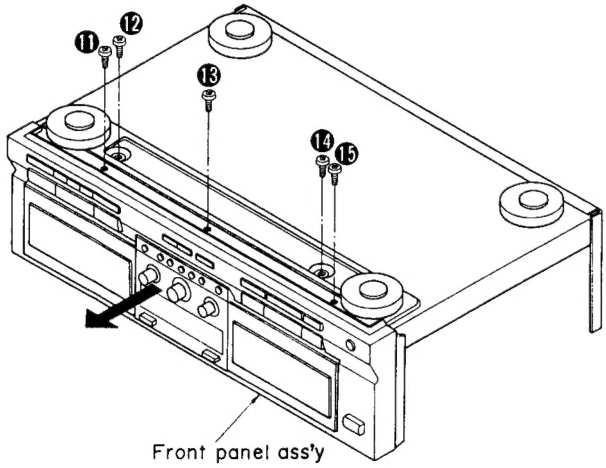
Ref. No. 12	How to check the Main P.C.B.
Procedure 1→12	• When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.



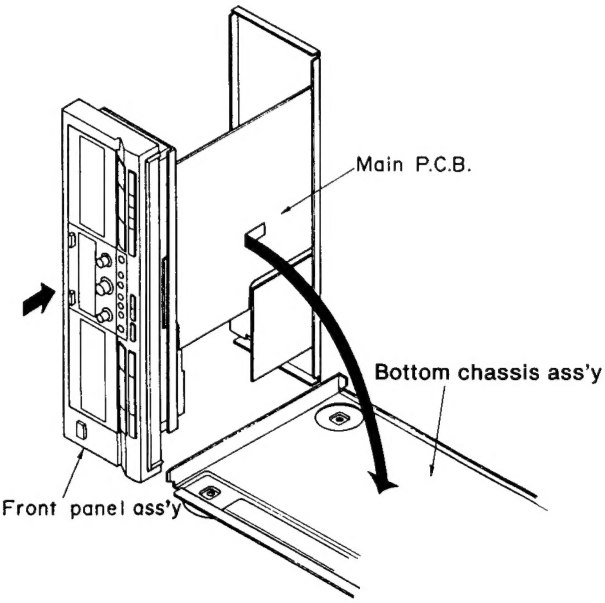
1. Remove the 3 screws (❶~❸).



2. Remove the 7 screws (❹~❿).



3. Remove the 5 screws (⓫~⓯).
4. Remove the front panel ass'y in the direction of arrow.



5. Remove the bottom chassis ass'y.
6. Reinstall the front panel to the main P.C.B.

■ MEASUREMENTS AND ADJUSTMENTS

Measurement Condition

- Recording-level control; Maximum
- Recording-balance control; Center
- Bias-adjustment control; Center
- Reverse-mode selector switch; ⇄
- Edit-recording tape-speed selector switch; X1
- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C (68±9°F)

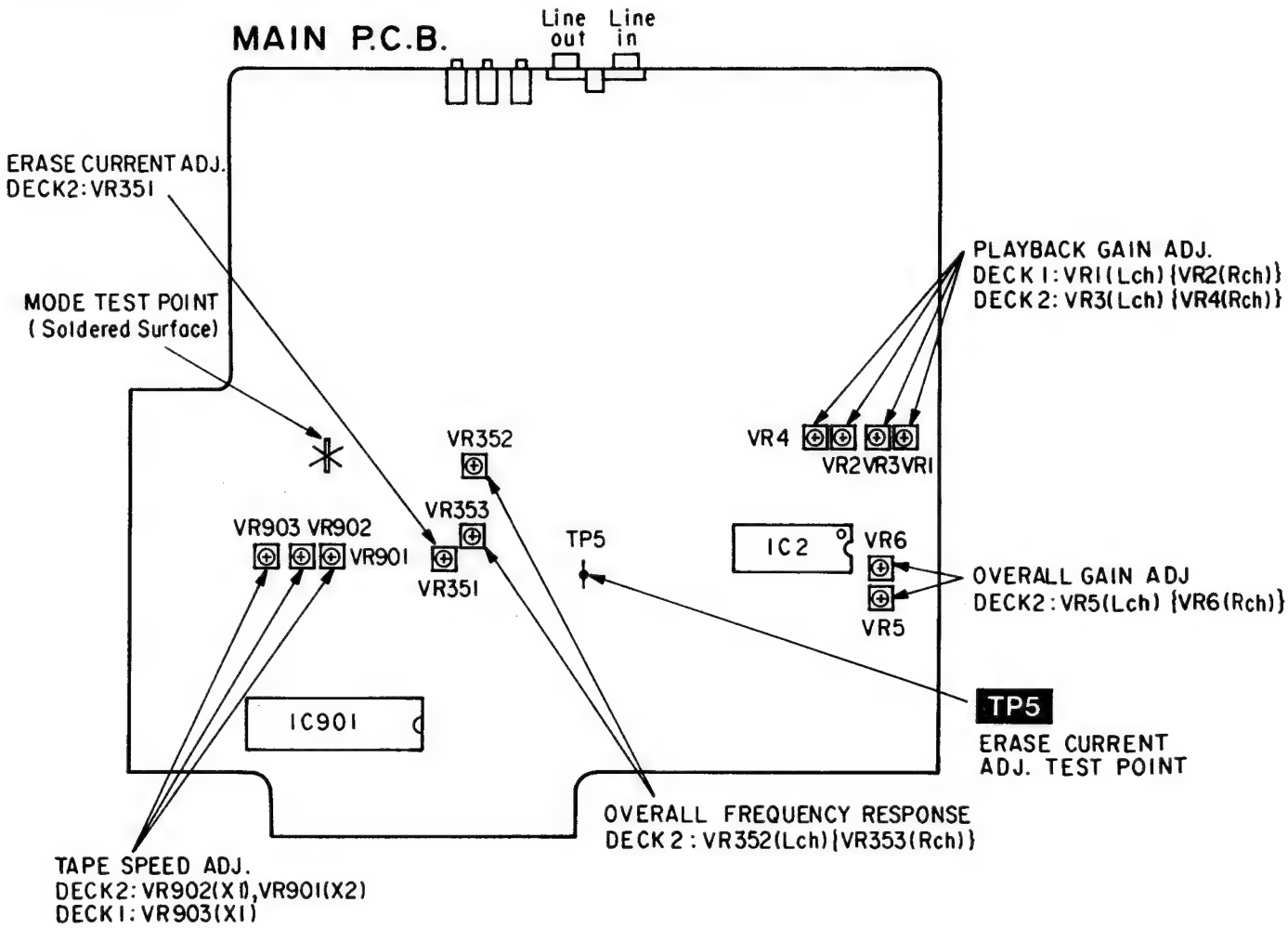
Measuring instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator
- ATT (Attenuator)
- DC voltmeter
- Resistor (600Ω)

Test tape

- Head azimuth adjustment (8kHz, −20dB); QZZCFM
- Tape speed adjustment (3kHz, −10dB); QZZCWAT
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, −20dB); QZZCFM
- Overall frequency response, Overall gain adjustment, Erase current adjustment
  Normal reference blank tape; QZZCRA
  CrO_2 reference blank tape; QZZCRX
  Metal reference blank tape; QZZCRZ

• Adjustment Points



HEAD AZIMUTH ADJUSTMENT (DECK 1/2)

1. Playback the azimuth adjustment portion (8kHz, −20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the output of the R-CH are maximized.
2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

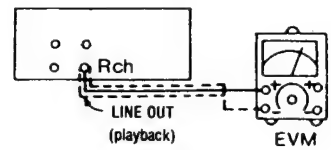


Fig. 1

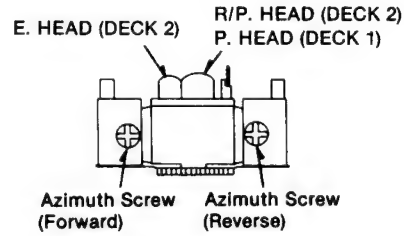


Fig. 2

TAPE SPEED ADJUSTMENT (DECK 1/2)

Normal speed

1. Shift the edit-recording tape-speed selector switch to "**X1**" and press the synchro-start button.
2. Playback the middle portion of the test tape (QZZCWAT).
3. Adjust Deck 1=**VR903** and Deck 2=**VR902** so that the output is within the standard value.

High speed

4. Shift the edit-recording tape-speed switch selector to "**X2**" and press the synchro-start button.
5. Playback the middle portion of the test tape (QZZCWAT).
6. Adjust Deck 2=**VR901** so that the output is with in the standard value.

Note: The Normal speed adjustment must be done before the High speed adjustment.

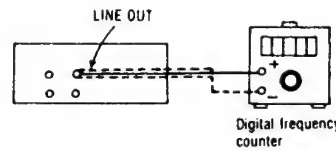


Fig. 3

(DECK 1) Standard value: 3000±15Hz [Normal (X1)], 6000±60Hz [High (X2), only confirmation]
(DECK 2) Standard value: 3000±15Hz [Normal (X1)], DECK 1 measured volue ±30 [High (X2)]

PLAYBACK GAIN ADJUSTMENT (DECK 1/2)

1. Playback the gain adjusted portion (315Hz, 0dB) of the test tape (QZZCFM).
2. Adjust Deck 1=**VR1** (L-CH) [[**VR2** (R-CH)]] and Deck 2=**VR3** (L-CH) [[**VR4** (R-CH)]] so that the output is within the standard value.

Standard value: 0.4V±0.5dB

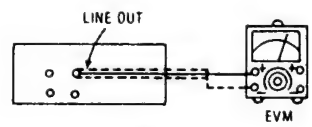


Fig. 4

PLAYBACK FREQUENCY RESPONSE (DECK 1/2)

1. Playback the frequency response portion (315Hz, 12.5kHz~63Hz, −20dB) of the test tape (QZZCFM).
2. Assure that the frequency response is within the range shown in **Fig. 6** for both L-CH and R-CH.

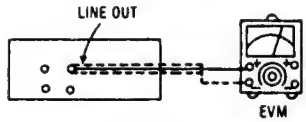


Fig. 5

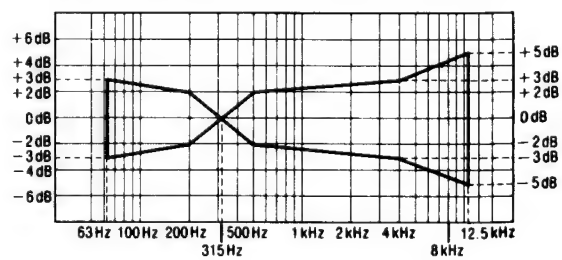


Fig. 6

ERASE CURRENT ADJUSTMENT (DECK 2)

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Adjust **VR351** so that the output between **TP5** and GND is within the standard value.

Standard value: 190±5mA (Metal)...EVM Reading: 190±5mV

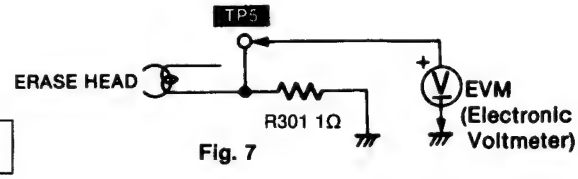


Fig. 7

OVERALL FREQUENCY RESPONSE (DECK 2)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
2. Apply a reference input signal (1kHz, −24dB) through an attenuator.
3. Attenuate the signal by 20dB and adjust the frequency from 50Hz~10kHz.
4. Record the frequency sweep.
5. Playback the recorded signal and assure that it is within the range shown in **Fig. 8** in comparison to the reference frequency (1kHz).
6. If it is not within the standard range, adjust **VR352** (L-CH) and **VR353** (R-CH) so that the frequency level is within the standard range.
   - Level up in high frequency range..... Increase the bias current.
   - Level down in high frequency range..... Decrease the bias current.
7. Repeat steps 2~6 above using the CrO_2 tape (QZZCRX) and the Metal tape (QZZCRZ) increasing the frequency range to 12.5kHz (50Hz~12.5kHz).
8. Assure that the level is within the range shown in **Fig. 9**.

Normal Overall frequency response chart (NR OUT)

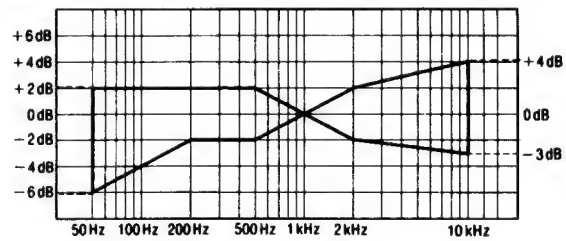


Fig. 8

CrO_2 Metal Overall frequency response chart (NR OUT)

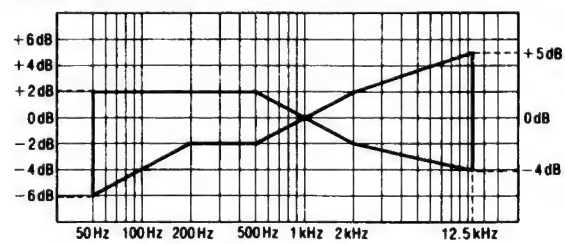


Fig. 9

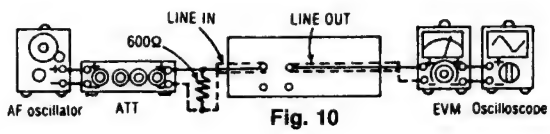


Fig. 10

OVERALL GAIN ADJUSTMENT (DECK 2)

1. Insert the Normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
2. Apply a reference input signal (1kHz, −24dB). Attenuate the output so that its level becomes 0.4V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5. If it is not within the standard value, adjust **VR5** (L-CH) and **VR6** (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: 0.4V±0.5dB

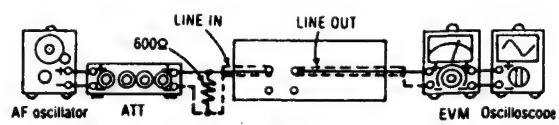
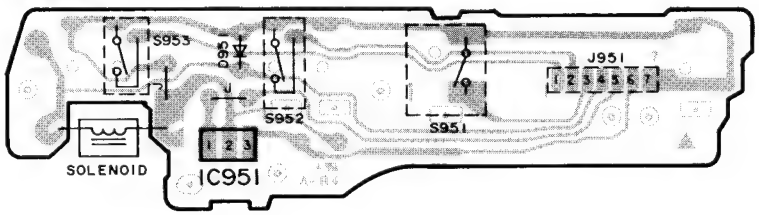


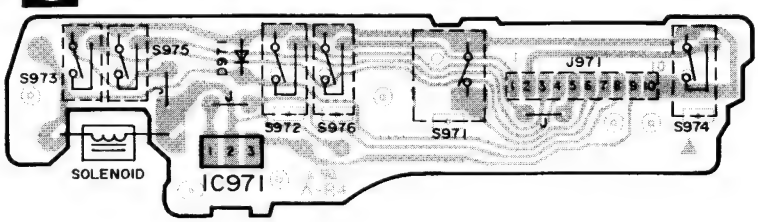
Fig. 11

■ PRINTED CIRCUIT BOARDS

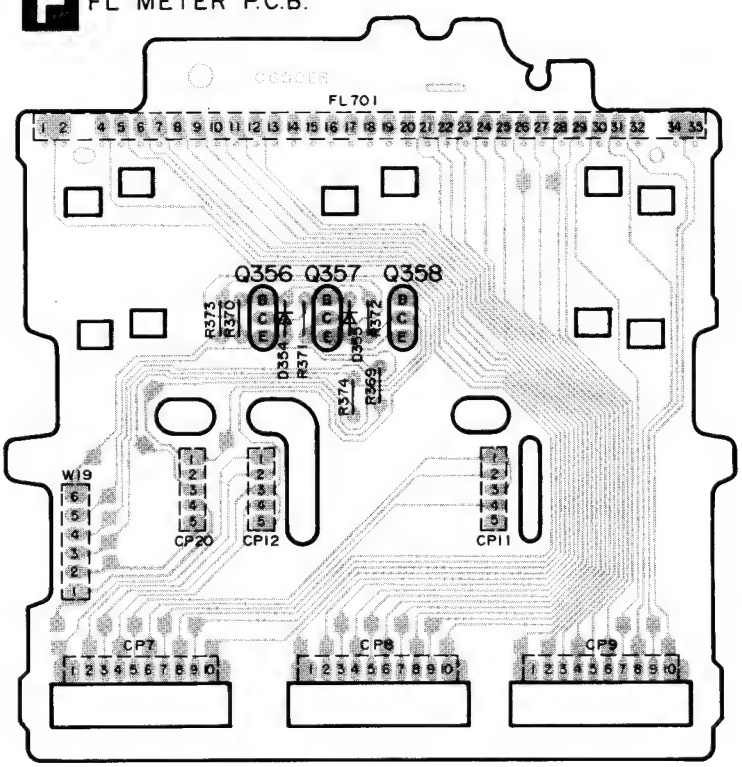
D MECHANISM (DECK1) P.C.B.



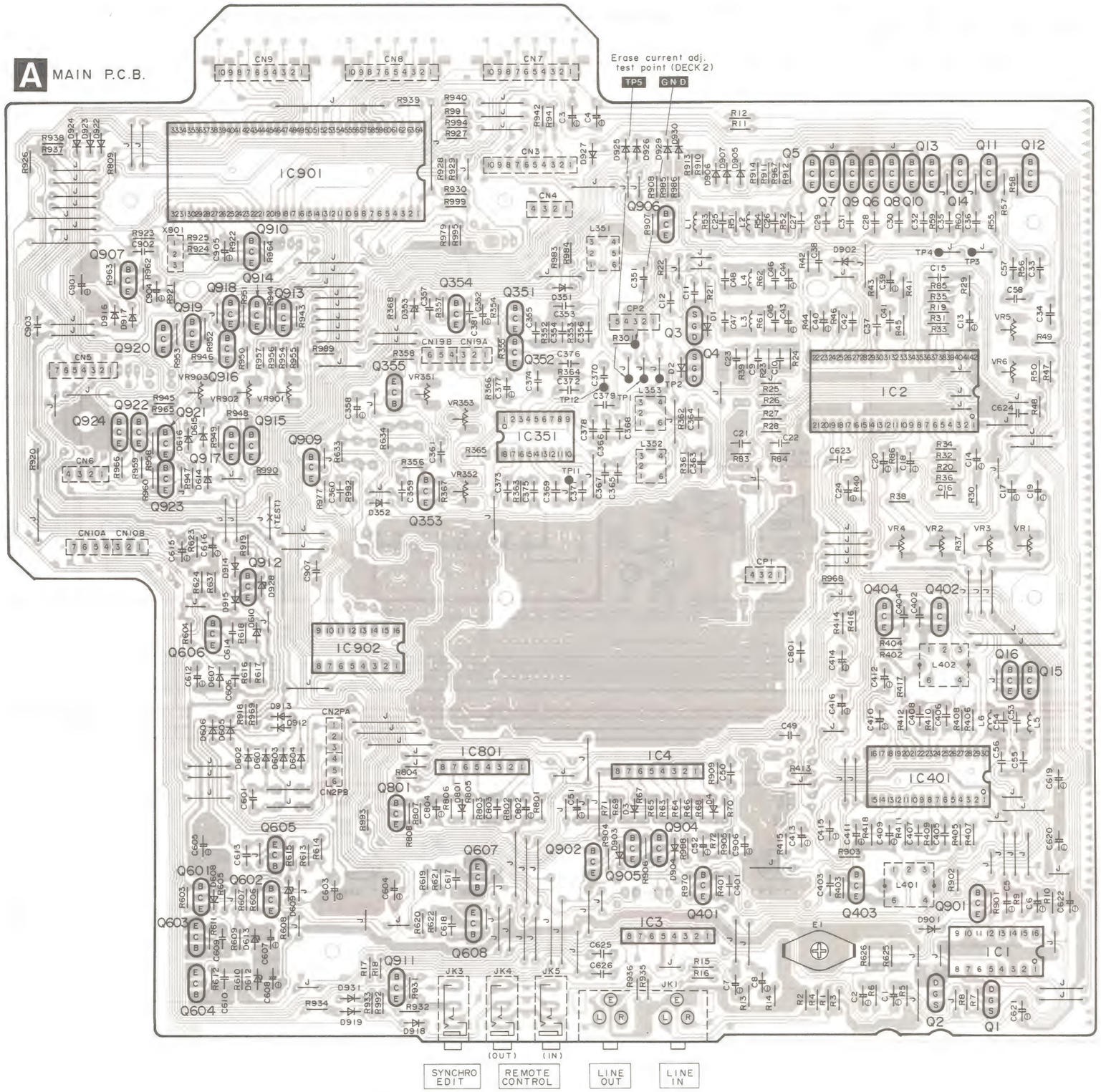
C MECHANISM (DECK2) P.C.B.



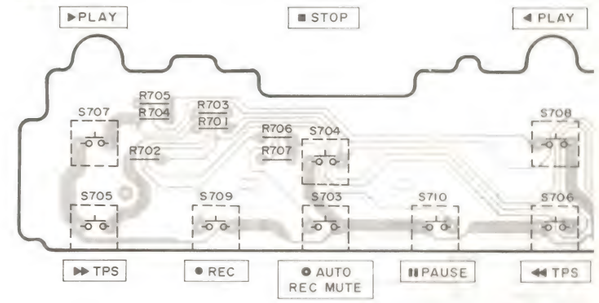
F FL METER P.C.B.



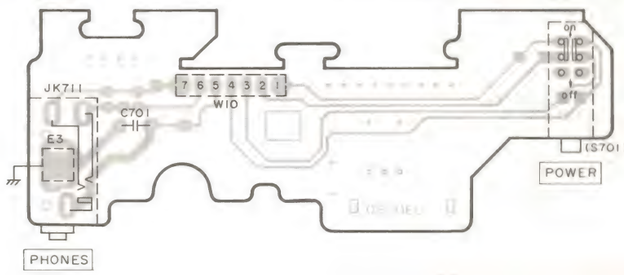
A MAIN P.C.B.



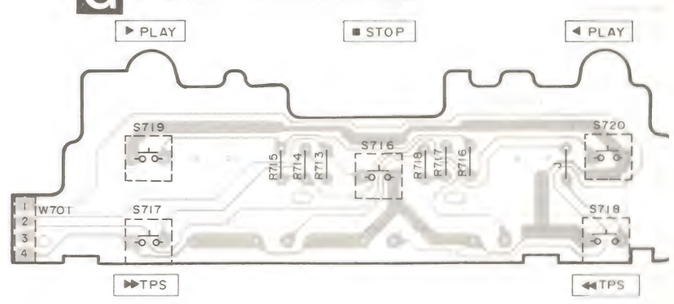
H OPERATION (DECK2) P.C.B.



E POWER SWITCH/HEADPHONES JACK P.C.B.

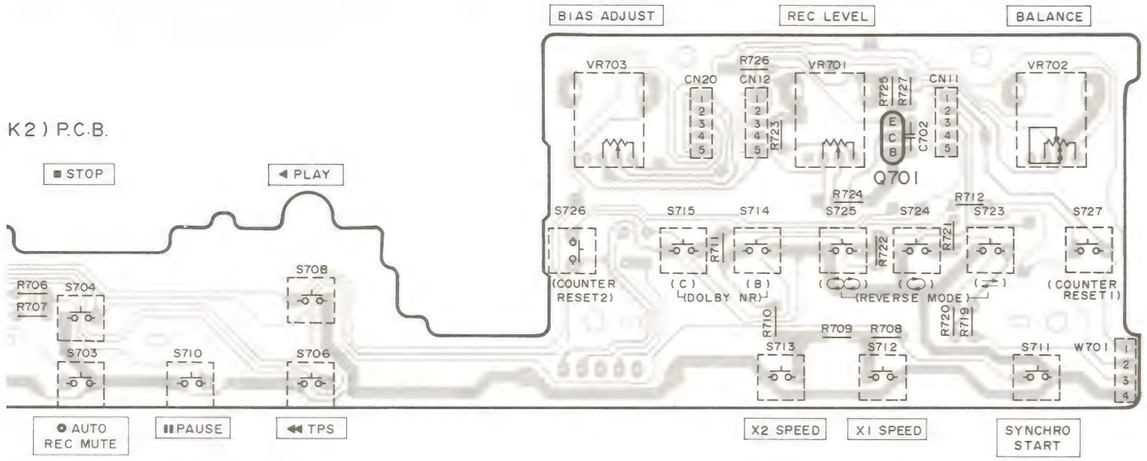


G OPERATION (DECK1) P.C.B.

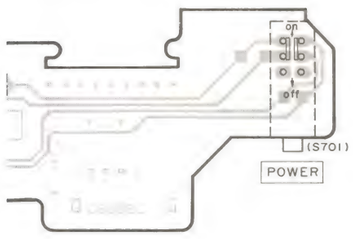


15 16 17 18 19 20 21 22 23 24

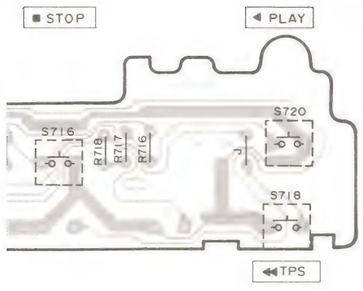
K2) P.C.B.



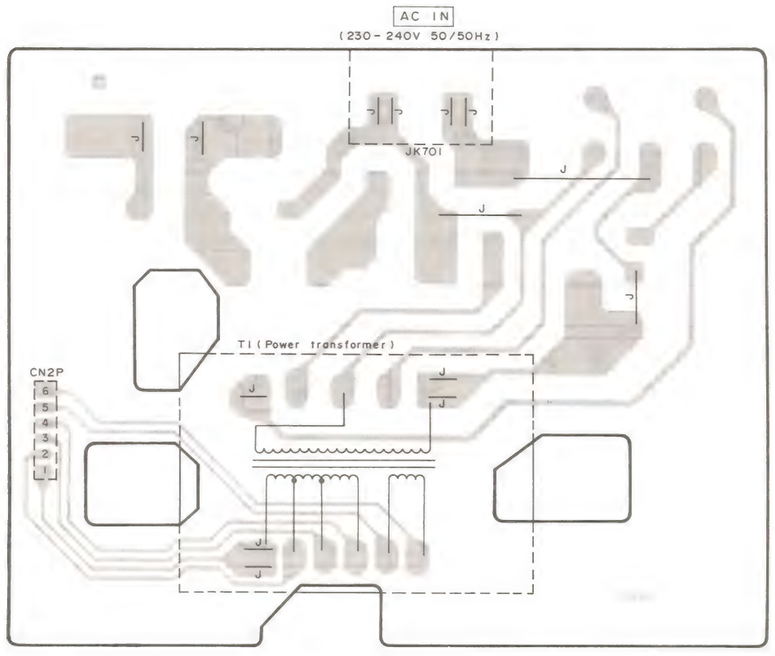
ADPHONES JACK P.C.B.



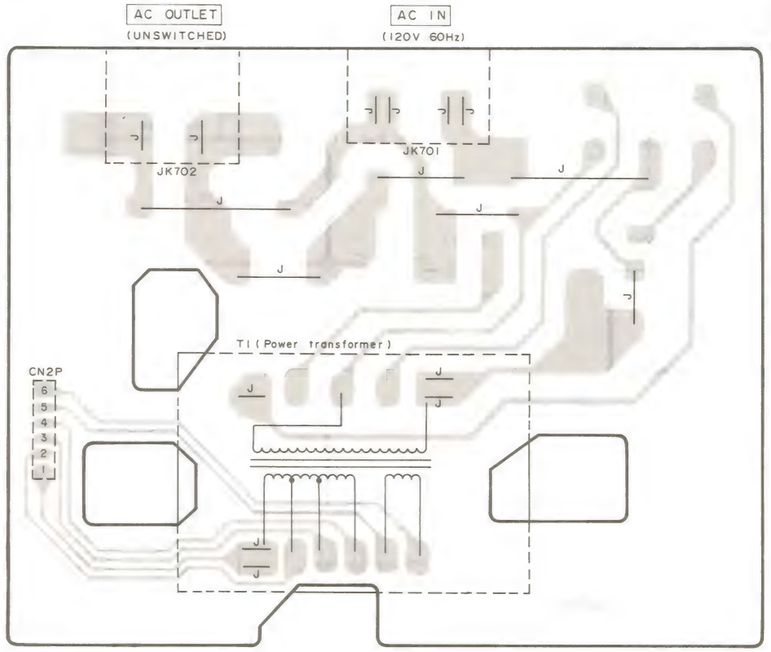
(1) P.C.B.



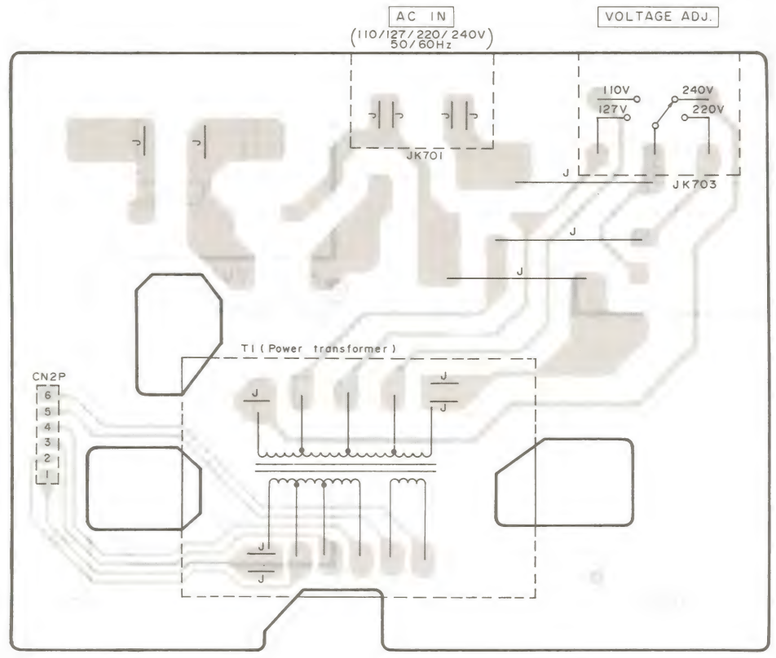
B POWER SUPPLY P.C.B. For [EB,EG,GN] areas.



B POWER SUPPLY P.C.B. For [P,PC] areas.



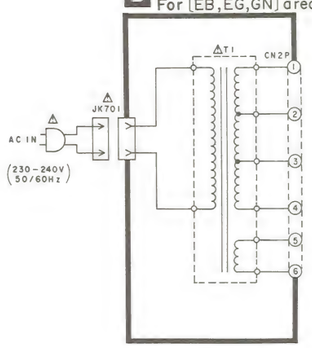
B POWER SUPPLY P.C.B. For [GC,PX] areas.



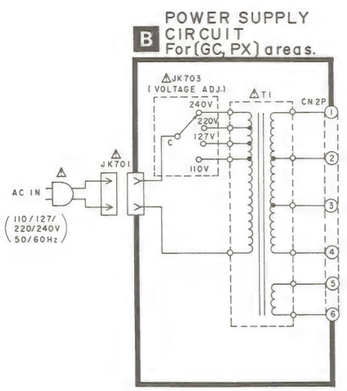
1 2 3 4 5 6 7 8 9 10

A B C D E F G

B POWER SUPPLY CIRCUIT For [EB, EG, GN] areas.



B POWER SUPPLY CIRCUIT For [EP, EG, PX] areas.



A MAIN CIRCUIT

Q1,2 2SJ164PQRTA REC MUTE

LINE IN L ch / R ch

REC SIGNAL (R ch)

IC1 AN7384N-A ELECTRIC VOLUME

DECK 1 PLAYBACK HEAD L ch / R ch

PLAYBACK SIGNAL (L ch)

Q3,4 2SJ164PQRTA HEAD R/P SELECT (PLAY:ON)

DECK 2 PLAYBACK HEAD L ch / R ch

ERASE HEAD

IC351 UPC1297CA DOLBY HX PRO

OVERALL FREQUENCY RESPONSE (R ch, DECK 2)

OVERALL FREQUENCY RESPONSE (L ch, DECK 2)

Q351, 352 2SC3311AQSTA BIAS OSC

Q354 KSD471ACYGTA BIAS OSC CONT.

Q909 2SB621ARSTA BIAS OSC CONT.

ERASE CURRENT ADJ. TEST POINT (DECK 2)

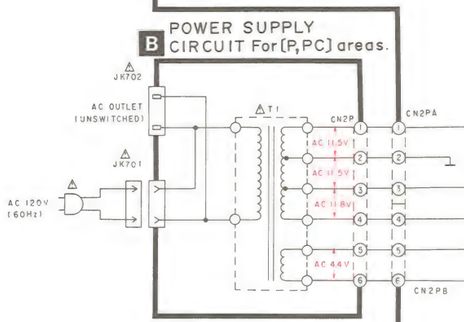
Q353 2SA1309AQSTA BIAS OSC CONT.

Q355 2SB1357EFTA BIAS OSC CONT.

D925, 926, 929, 930 MA165TA

D614 ~ 616 ISR35200TB

B POWER SUPPLY CIRCUIT For [P, PC] areas.



D601 ~ 607 ISR35200TB

Q601 2SA1309AQSTA STABILIZER

Q602 2SC3311AQSTA STABILIZER

Q603, 605 2SD2037EFTA REGULATOR

Q604 2SB1357EFTA REGULATOR

Q606 2SB621ARSTA REGULATOR

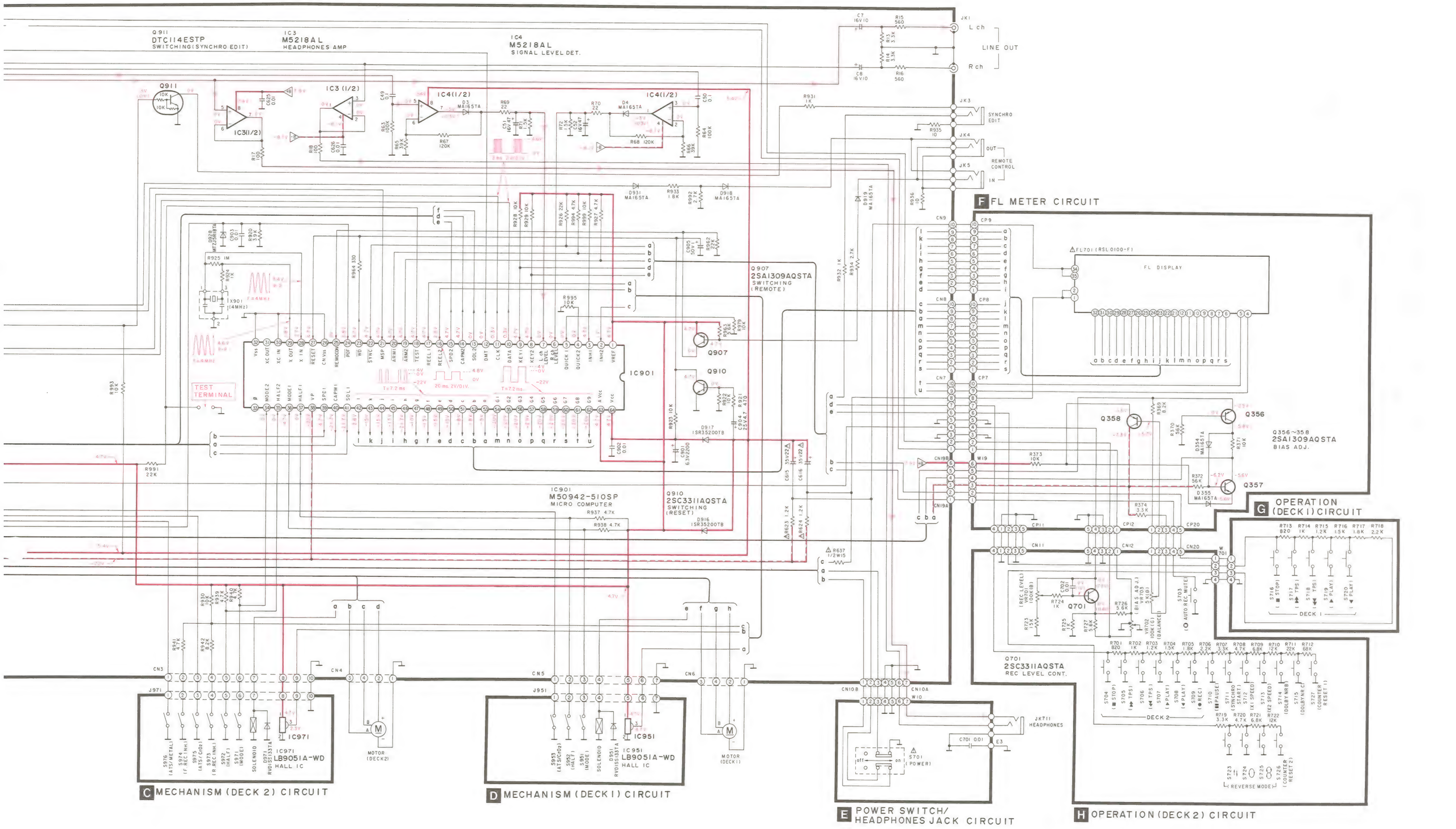
Q607 2SD2037EFTA POWER SUPPLY

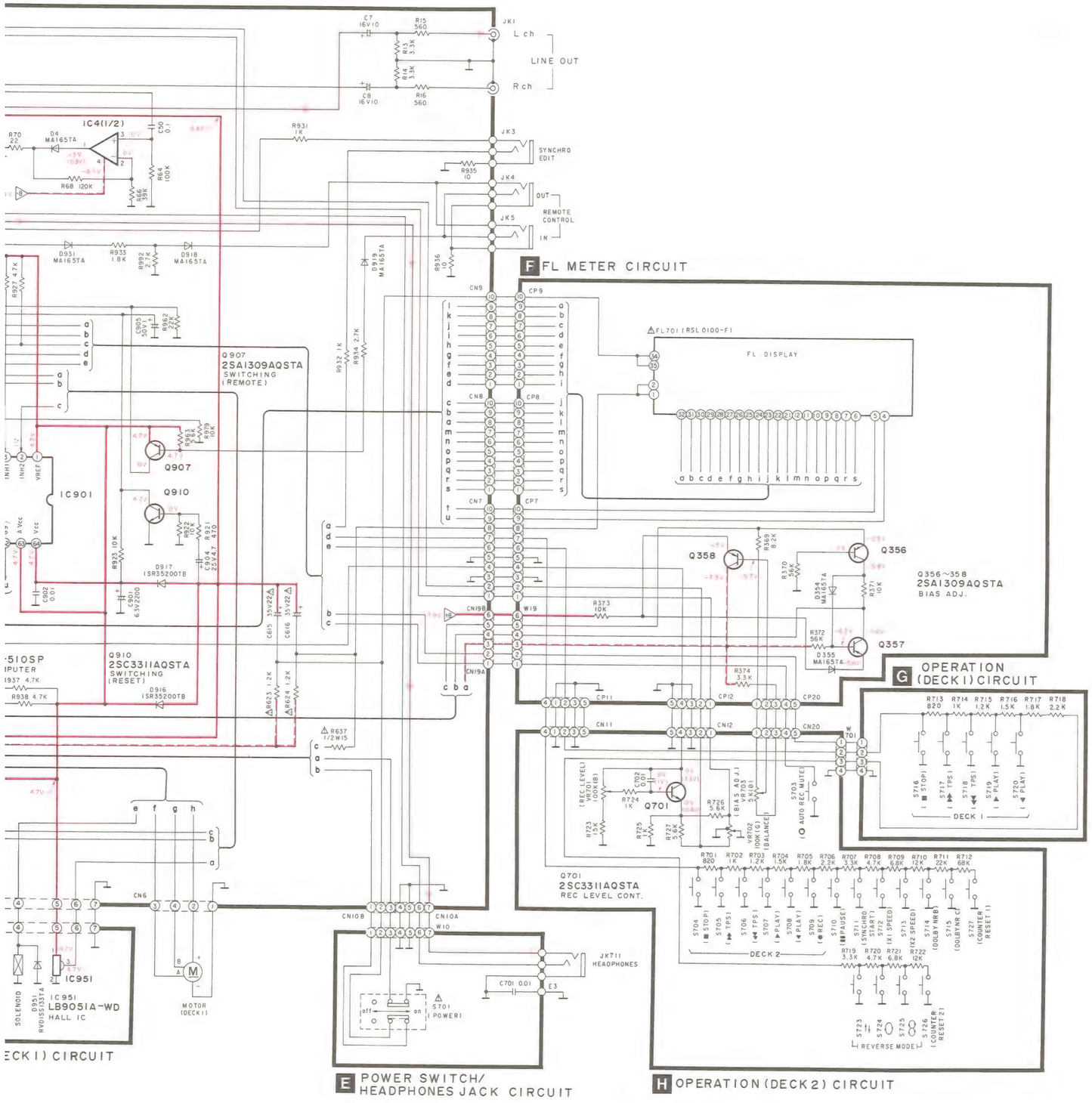
Q608 2SB1357EFTA POWER SUPPLY

Q912 DTC114ESTP SWITCHING

10 11 12 13 14 15 16 17 18 19

PLAYBACK GAIN ADJ.(L ch,DECK1)
PLAYBACK GAIN ADJ.(L ch,DECK2)
PLAYBACK GAIN ADJ.(R ch,DECK1)
PLAYBACK GAIN ADJ.(R ch,DECK2)
IC2 AN7351K PLAYBACK/REC AMP
Q5~8 2SA1309AQSTA REC EQ(X2/METAL)
Q9~14 2SC3311AQSTA REC EQ(X2/METAL/CrO2)
Q15,16 2SD1450RSTA MUTING
Q401~404 2SC3311AQSTA MPX SELECT
IC401 CXA1331S DOLBY NR(B/C)
IC801 M5218AL TPS AMP
Q801 2SC3311AQSTA TPS AMP
IC902 M50253P SYSTEM CONT.
Q354 KSD471ACYGTA BIAS OSC CONT.
Q909 2SB621ARSTA BIAS OSC CONT.
Q355 2SB1357EFTA BIAS OSC CONT.
Q906 DTA114ESTP SWITCHING
Q904,905 DTA144ESTP SWITCHING(DOLBY B/C)
Q902 DTA114ESTP SWITCHING (R/P SELECT)
Q913,919 2SB621ARSTA SOLENOID DRIVE
Q914,920 DTC114ESTP SOLENOID DRIVE
Q915,921 2SA1309AQSTA MOTOR SPEED CONT.
Q916,922 DTC114ESTP MOTOR SPEED CONT.
Q901 2SC3311AQSTA REC LEVEL CONT.
Q917,923 2SB621ARSTA MOTOR DRIVE
Q918,924 DTC114ESTP MOTOR DRIVE
OVERALL GAIN ADJ. (L ch, DECK2)
OVERALL GAIN ADJ. (R ch, DECK2)
TAPE SPEED ADJ. (X2, DECK2)
TAPE SPEED ADJ (X1, DECK2)
TAPE SPEED ADJ. (X1, DECK1)


Q911
DTC114ESTP
SWITCHING(SYNCHRO EDIT)
IC3
M5218AL
HEADPHONES AMP
IC4
M5218AL
SIGNAL LEVEL DET.
IC3(1/2)
IC4(1/2)
IC4(1/2)
D3 MA165TA
D4 MA165TA
D931 MA165TA
D918 MA165TA
D919 MA165TA
JK1 L ch
Rch
LINE OUT
JK3 SYNCHRO EDIT
JK4 OUT
JK5 IN
REMOTE CONTROL
F FL METER CIRCUIT
FL DISPLAY
Q907
2SA1309AQSTA
SWITCHING
(REMOTE)
Q910
IC901
M50942-510SP
MICRO COMPUTER
Q910
2SC3311AQSTA
SWITCHING
(RESET)
TEST TERMINAL
Q358
Q356
Q357
Q356~358
2SA1309AQSTA
BIAS ADJ.
G OPERATION (DECK1) CIRCUIT
Q701
2SC3311AQSTA
REC LEVEL CONT.
C MECHANISM (DECK 2) CIRCUIT
IC971
LB9051A-WD
HALL IC
MOTOR (DECK2)
D MECHANISM (DECK1) CIRCUIT
IC951
LB9051A-WD
HALL IC
MOTOR (DECK1)
E POWER SWITCH/
HEADPHONES JACK CIRCUIT
JK711 HEADPHONES
S701 POWER
H OPERATION (DECK 2) CIRCUIT
DECK 2
DECK 1
REVERSE MODE



■ SCHEMATIC DIAGRAM (Parts list on pages 41～44.)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- JK703 : Voltage selector in "**240V**" position. (For [GC, PX] areas only.) (110V ↔ 127V ↔ 220V ↔ 240V)
- S701 : Power switch in "**on**" position (P, PC areas: POWER/ ■ OFF ▬ ON, Others areas: POWER/ ■ standby ⏻ ▬ ON).
- S703 : DECK 2 Automatic-record-muting switch (● AUTO REC MUTE).
- S704 : DECK 2 Stop switch (■ STOP).
- S705 : DECK 2 Fast-forward switch (▶▶ TPS).
- S706 : DECK 2 Rewind switch (◀◀TPS).
- S707 : DECK 2 Forward-side playback switch (▶ PLAY).
- S708 : DECK 2 Reverse-side playback switch (◀ PLAY).
- S709 : DECK 2 Record switch (● REC).
- S710 : DECK 2 Pause switch (▮▮ PAUSE).
- S711 : Synchro-start switch (SYNCHRO START).
- S712 : Edit-recording tape-speed selector switch (X1 SPEED).
- S713 : Edit-recording tape-speed selector switch (X2 SPEED).
- S714 : Dolby noise-reduction selector switch (Dolby NR; B).
- S715 : Dolby noise-reduction selector switch (Dolby NR; C).
- S716 : DECK 1 Stop switch (■ STOP).
- S717 : DECK 1 Fast-forward switch (▶▶ TPS).
- S718 : DECK 1 Rewind switch (◀◀ TPS).
- S719 : DECK 1 Forward-side playback switch (▶ PLAY).
- S720 : DECK 1 Reverse-side playback switch (◀ PLAY).
- S723 : Reverse-mode switch (REVERSE MODE; ⇄).
- S724 : Reverse-mode switch (REVERSE MODE; ⇄).
- S725 : Reverse-mode switch (REVERSE MODE; ⇄).
- S726 : DECK 2 Tape counter reset 2 switch (COUNTER RESET 2).
- S727 : DECK 1 Tape counter reset 1 switch (COUNTER RESET 1).
- S951 : DECK 1 Mode switch "**off**" position.
- S952 : DECK 1 Cassette half detection switch in "**off**" position.
- S953 : DECK 1 ATS (CrO_2) switch in "**off**" position.
- S971 : DECK 2 Mode switch in "**off**" position.
- S972 : DECK 2 Cassette half detection switch in "**off**" position.
- S973 : DECK 2 Reverse rec. inhibit switch in "**off**" position.
- S974 : DECK 2 Forward rec. inhibit switch in "**off**" position.
- S975 : DECK 2 ATS (CrO_2) switch in "**off**" position.
- S976 : DECK 2 ATS (Metal) switch in "**off**" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise. 1K=1,000 (Ω), 1M=1,000k (Ω)
- Capacity are in micro-farads (μF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
  ( ).....Voltage values at record mode.
  For measurement us EVM.
- Important safety notice
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components, use only manufacturer's specified parts.
- (▬▬< +B >▬▬) indicates +B (bias).
- (▪▪▪< −B >▪▪▪) indicates −B (bias).
- (▒▒▒) indicates the flow of the playback signal.
- (⇨) indicates the flow of the record signal.
- The supply part number is described alone in the replacement parts list.

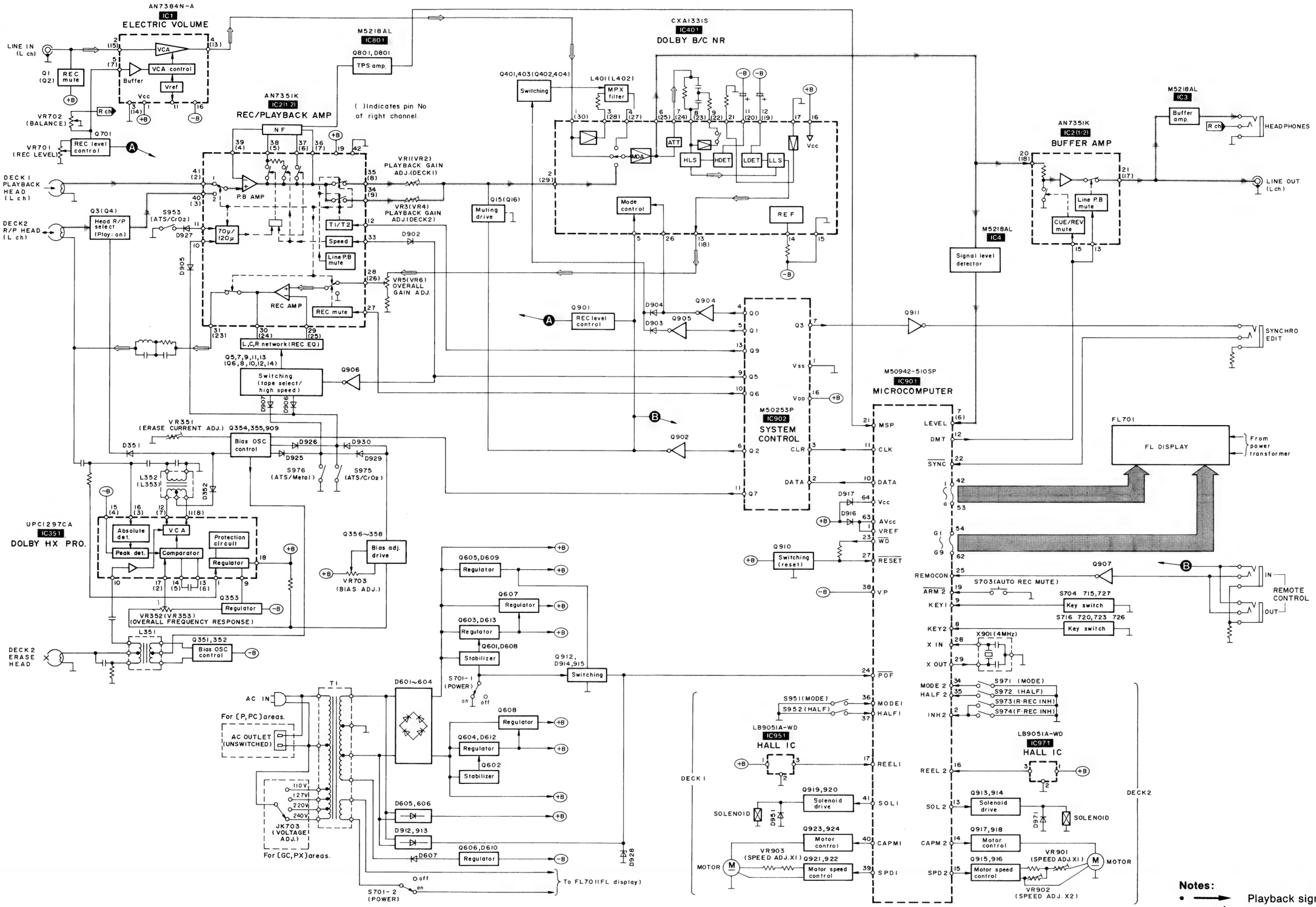
Ref. No.	Production Part No.	Supply Part No.
IC1	AN7384N-A	AN7384
IC3, 4, 801	M5218AL	M5218L

∗**Caution!**

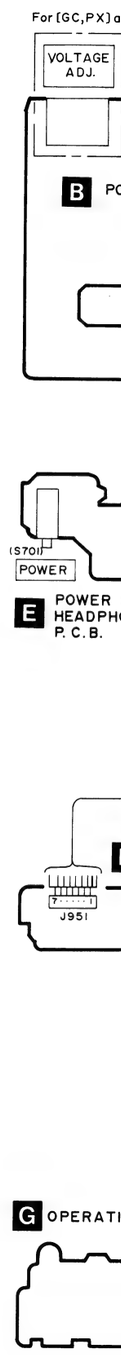
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
∗Cover the parts boxes made of plastics with aluminum foil.
∗Ground the soldering iron.
∗Put a conductive mat on the work table.
∗Do not touch the legs of IC or LSI with the fingers directly.

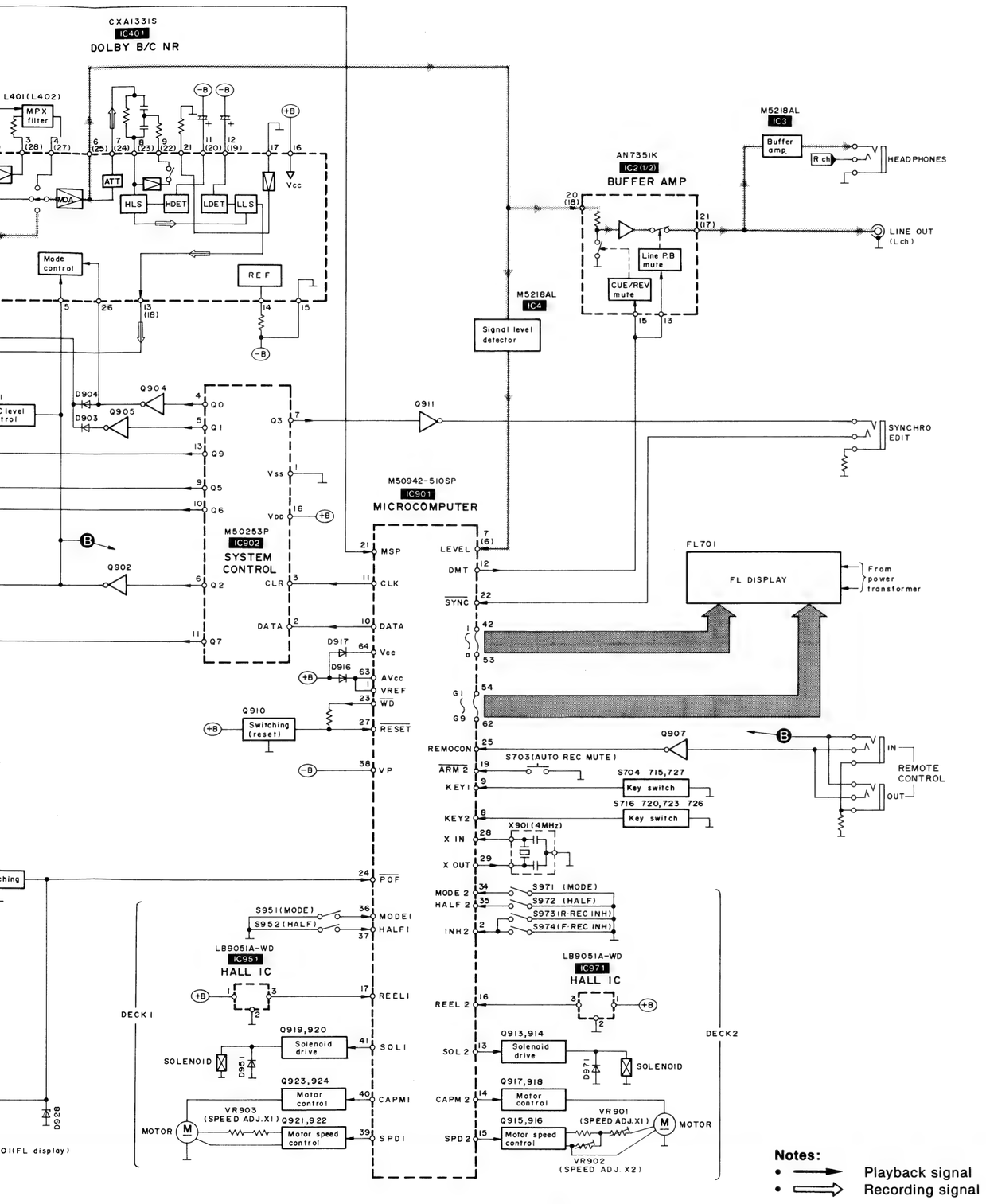
RS-TR333 RS-TR333

BLOCK DIAGRAM

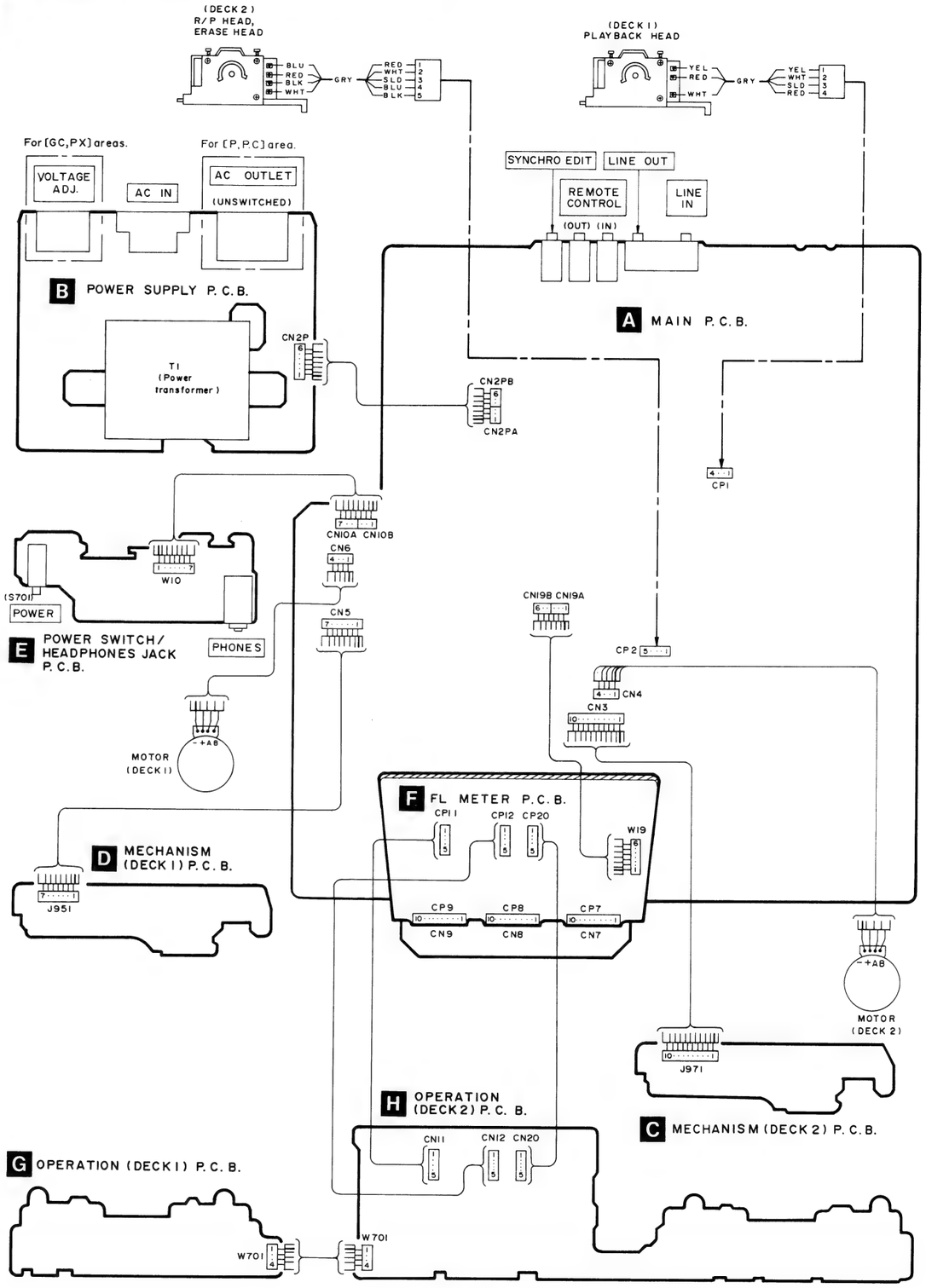


WIRING CO





■ WIRING CONNECTION DIAGRAM



TERMINAL FUNCTION OF IC

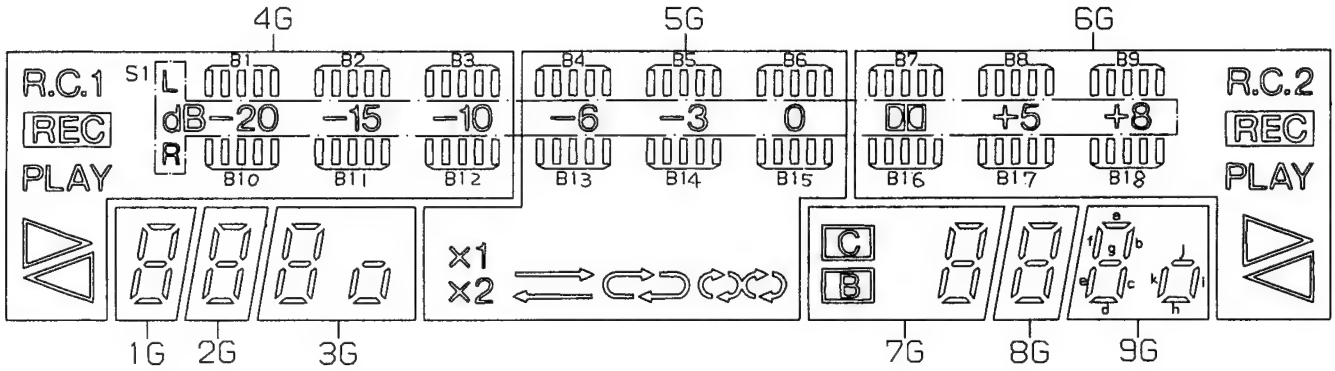
• IC901 (M50942-510SP): MICROCOMPUTER

Pin No.	Mark	I/O	Description
1	V_{REF}	I	Standard voltage terminal (5V)
2	INH 2	I	Deck 2 Forward/Reverse Rec. Inh. switch select terminal
3	INH 1	I	Deck 1 Forward/Reverse Rec. Inh. switch select terminal
4	QUI 2	I	Deck 2 leader tape det. for quick reverse
5	QUI 1		Deck 1 leader tape det. for quick reverse
6	R IN	I	Rch indication level
7	L IN		Lch indication level
8	KEY 2	I	Key switch scan (DECK 1: STOP, TPS (F.F., REW.) F. PLAY, R. PLAY, C-RES 2, REVERSE MODE)
9	KEY 1	I	Key switch scan (DECK 2: STOP, TPS (F.F., REW.) F. PLAY, R. PLAY, REC., PAUSE, S. START, ×1, ×2, DOLBY B, C, C-RES 1)
10	DATA	O	Amp control output serial data ($\overline{B}$, $\overline{C}$, $\overline{ENC}$, $\overline{X2}$, $\overline{T2P}$, $\overline{REN}$ RMT 2, $\overline{REC\ 2}$)
11	CLK	O	Serial data clock output
12	DMT	O	Line out mute output Mute ON: "H", Mute OFF: "L"
13	SOL 2	O	Deck 2 Plunger ON/OFF control ON: "H", OFF: "L"
14	CAPM 2	O	Deck 2 motor ON/OFF control ON: "H", OFF: "L"
15	SPD 2	O	Deck 2 Motor speed X1: "H", X2: "L"
16	REEL 2	I	Deck 2 Rotation det.
17	REEL 1	I	Deck 1 Rotation det.
18	$\overline{TEST}$	I	Adjustment mode det. Normal: "H", Test: "L"
19	$\overline{ARM\ 2}$	I	Deck 2 Auto Rec Mute Key Key ON: "L", Key OFF: "H"
20	$\overline{ARM\ 1}$	I	Deck 1 Auto Rec Mute Key
21	MSP	I	TPS det. signal ON: "L", Signal OFF: "H"
22	$\overline{SYNC}$	I	Synchro start signal start: "L", Stop: "H"
23	$\overline{WD}$	O	Runaway det. Normal: "H" Runaway: "L"
24	$\overline{POF}$	I	Power off det. OFF: "L"
25	REMOCON	I	Remote control signal

Pin No.	Mark	I/O	Description
26	CN V_{SS}	I	Connected to Vss.
27	$\overline{RESET}$	I	Reset input terminal Normal: "H", Reset: "L"
28	X IN	I	Clock OSC terminal (4MHz)
29	X OUT	O	
30	XC IN	I	Not used
31	XC OUT	O	Not used
32	V_{SS}	I	Connected to GND
33	Ø	O	Not used
34	MODE 2	I	Deck 2 mechanism mode switch select terminal PLAY, TPS (F.F., REW.): "L", Stop: "H"
35	HALF 2	I	Deck 2 cassette half detection switch ON: "L", OFF: "H"
36	MODE 1	I	Deck 1 mechanism mode switch select terminal PLAY, TPS (FF., REW.): "L", STOP: "H"
37	HALF 1	I	Deck 1 cassette half detection switch
38	VP	I	Standard voltage terminal
39	SPD 1	O	Deck 1 motor speed select terminal X1: "H", X2: "L"
40	CAPM 1	O	Deck 1 motor ON/OFF control terminal ON: "H", OFF: "L"
41	SOL 1	O	Deck 1 plunger ON/OFF control ON: "H", OFF: "L"
42 ∫ 53	1 ∫ a	O	FL meter segment ON: "H", OFF: "L"
54 ∫ 62	G1 ∫ G9	O	FL meter grid ON: "H", OFF: "L"
63	AVcc	I	Power supply terminal (A/D)
64	Vcc	I	Power supply terminal

■ INTERNAL CONNECTION OF FL

• Grid connection diagram



• Anode connection table

	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	a	a	a	B1	B4	B7	a	a	a
P2	b	b	b	B2	B5	B8	b	b	b
P3	c	c	c	B3	B6	B9	c	c	c
P4	d	d	d	B10	B13	B16	d	d	d
P5	e	e	e	B11	B14	B17	e	e	e
P6	f	f	f	B12	B15	B18	f	f	f
P7	g	g	g	R.C.1	×1	R.C.2	g	g	g
P8	–	–	h	REC	×2	REC	C	–	h
P9	–	–	i	PLAY	⇄	PLAY	B	–	i
P10	–	–	j	▷	↻	▷	–	–	j
P11	–	–	k	◁	↺	◁	–	–	k
P12	–	–	–	S1	S1	S1	–	–	–

• Pin connection

PIN NO.	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NC	NC	NC	NC	NC	NC	NC	NC	1G	2G	3G	4G	5G	6G	7G	8G	9G	NP	F1	F1

Note

1) F1, F2 .....Filament
2) NP .....No pin
3) NC .....No connection
4) 1G~9G .....Grid

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

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 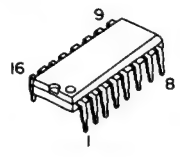 </td>
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 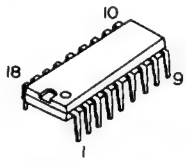 </td>
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 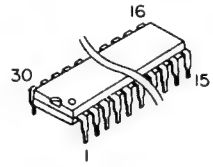 </td>
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 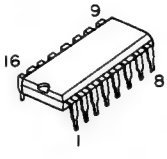 </td>
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 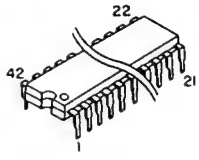 </td>
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 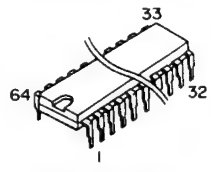 </td>
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 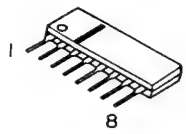 </td>
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 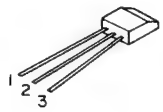 </td>
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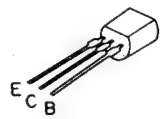
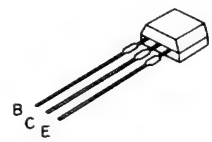
  </td>
<td colspan="2"> 
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 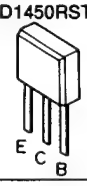 </td>
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 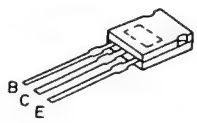 </td>
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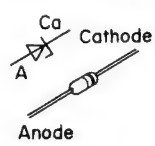
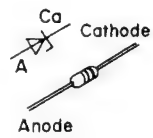
  </td>
<td colspan="2"> 
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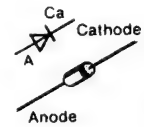
<td> 
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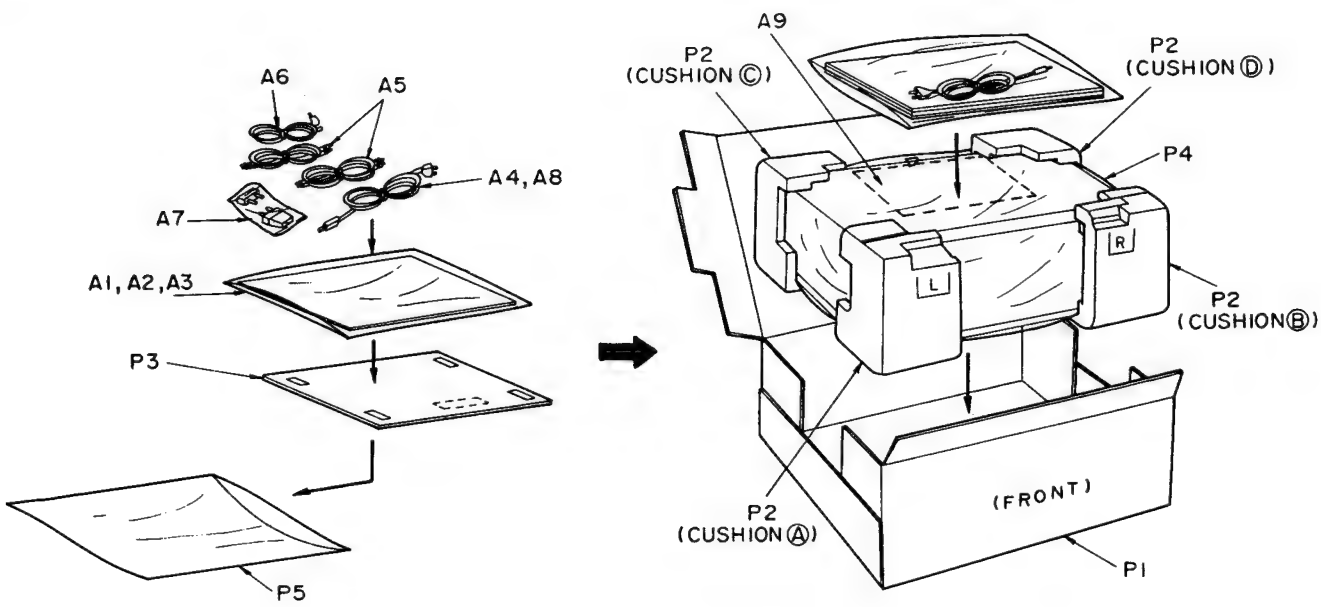
PACKING



<CUSHION Ⓐ, Ⓑ, Ⓒ, Ⓓ Part No.: RPN0296>

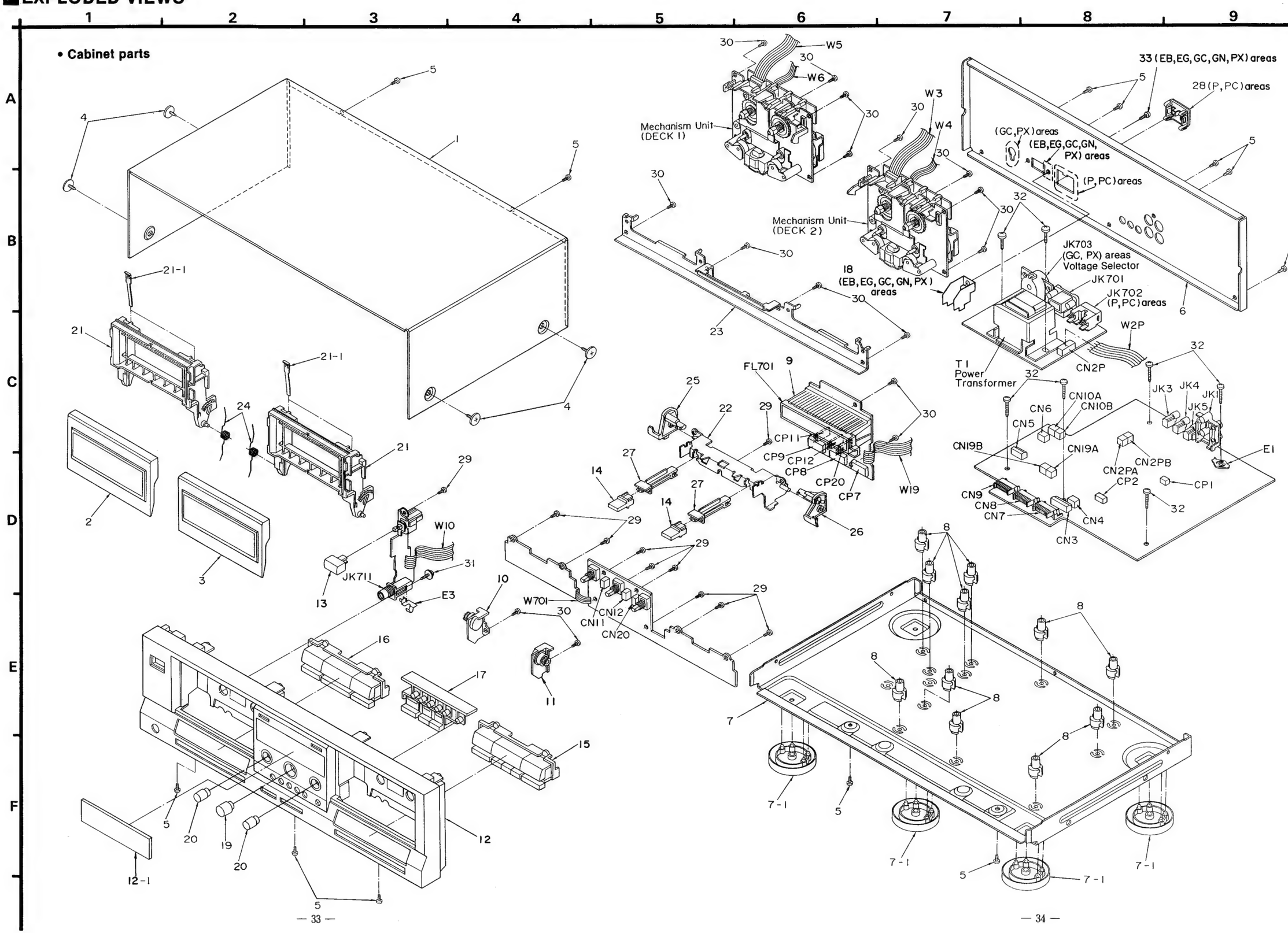
■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0016-K1	CABINET	
2	RYF0119K-K	CASSETTE LID(DECK1)	
3	RYF0119L-K	CASSETTE LID(DECK2)	
4	SNE2129-1	SCREW	
5	XTBS3+8JFZ1	SCREW	
6	RGR0112A-G1	REAR PANEL	(P, PC)
6	RGR0112E-C	REAR PANEL	(EG)
6	RGR0112E-D	REAR PANEL	(EB, GN)
6	RGR0112F-B	REAR PANEL	(GC)
6	RGR0112F-C	REAR PANEL	(PX)
7	RFKJSTR313PK	BOTTOM CHASSIS ASS'Y	
7-1	RKA0009-1	FOOT	
8	RKQ0089	P.C.B. HOLDER	
9	RMN0137	FL HOLDER	
10	RFKNSDN7AK	DAMPER GEAR ASS'Y(L)	
11	RFKNSDN7BK	DAMPER GEAR ASS'Y(R)	
12	RFKGSTR333EB	FRONT PANEL ASS'Y	(EB, EG, GC, GN, PX)
12	RFKGSTR333P	FRONT PANEL ASS'Y	(P, PC)
12-1	RKW0139A-K1	TRANSPARENT PLATE	
13	RGU0030	BUTTON, POWER	
14	RGU0070	BUTTON, EJECT	
15	RGU0519A-K	BUTTON, OPERATION(DECK2)	
16	RGU0520A-K	BUTTON, OPERATION(DECK1)	
17	RGU0522A-K	BUTTON, SYNCHRO	
18	RMA0582	BRACKET, P. TRANSFORMER	(EB, EG, GC, GN, PX)
19	RGW0109-K	KNOB, REC LEVEL	
20	RGW0110-K	KNOB, BALANCE/BIAS ADJ.	
21	RKF0169A-K	CASSETTE HOLDER	
21-1	QBP2006A	TAPE PRESSURE SPRING	
22	RMA0406	EJECT ANGLE	
23	RMA0407	MECHANISM ANGLE	
24	RME0068-1	SPRING	
25	RML0185-1	EJECT LEVER(L)	
26	RML0186-1	EJECT LEVER(R)	
27	RMM0014	EJECT ROD	
28	SJS9331A	AC OUTLET COVER	(P, PC)
29	XTBS26+8J	SCREW	
30	XTB3+10JFZ	SCREW	
31	XTWS3+10Q	SCREW	
32	XTB3+20JFZ	SCREW	
33	XTBS3+8JFZ1	SCREW	(EB, EG, GC, GN, PX)
		PACKING MATERIAL	

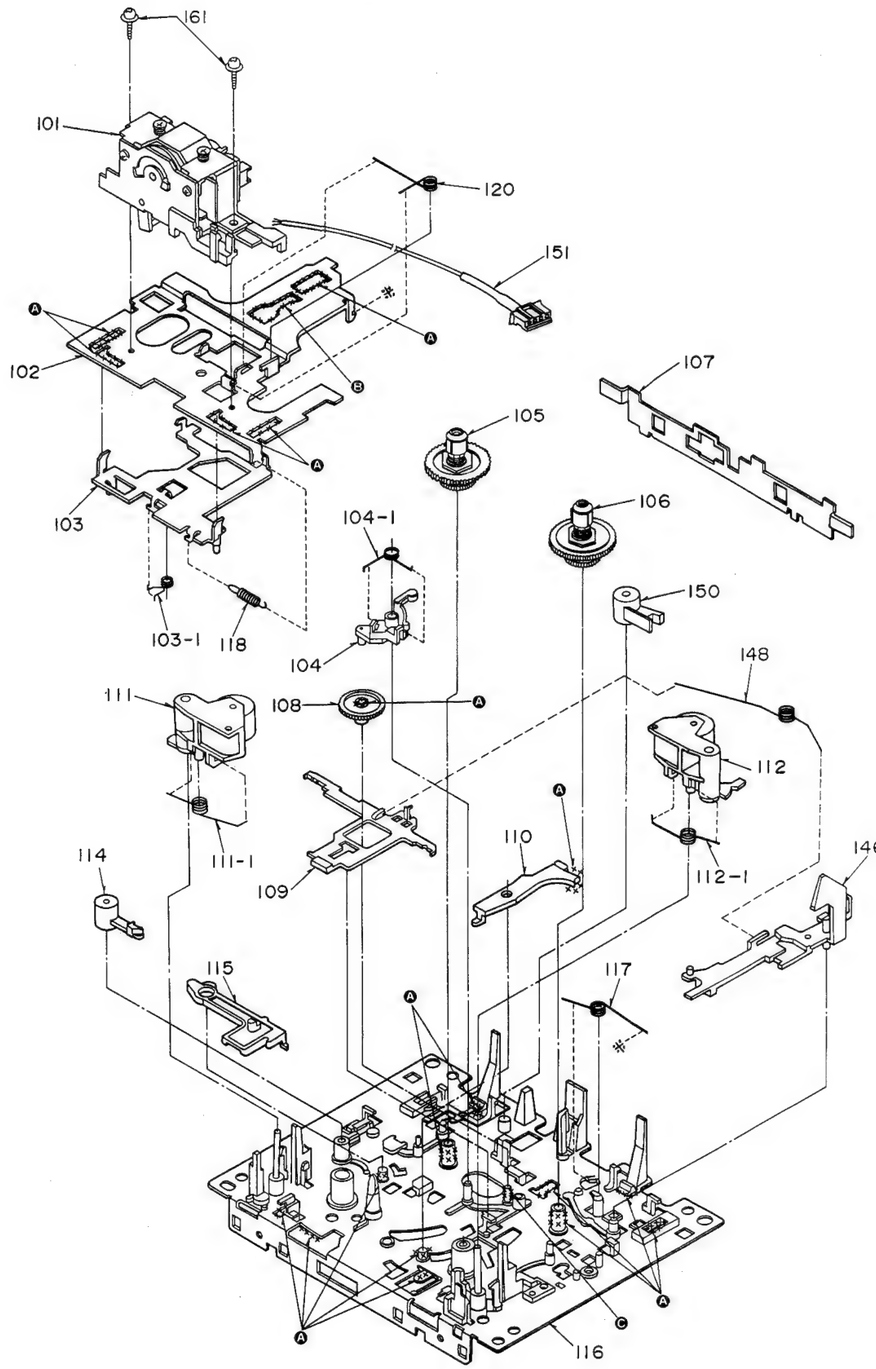
Ref. No.	Part No.	Part Name & Description	Remarks
P1	RPG1133	CARTON BOX	(P, PX)
P1	RPG1134	CARTON BOX	(PC)
P1	RPG1135	CARTON BOX	(EB, EG, GC, GN)
P2	RPN0296	CUSHION	
P3	RPQ0164	ACCESSORIES PAD	
P4	XZB50X65A02Z	PROTECTION COVER(THIS UNIT)	
P5	XZB24X34C04	PROTECTION BAG(F.B., ACC.)	
		ACCESSORIES	
A1	RFKSSTR333EG	INSTRUCTION MANUAL ASS'Y	(EG)
A1	RFKSSTR333PC	INSTRUCTION MANUAL ASS'Y	(PC)
A1	RQT1370-P	INSTRUCTION MANUAL	(P)
A1	RQT1372-G	INSTRUCTION MANUAL	(GC)
A1	RQT1374-B	INSTRUCTION MANUAL	(EB, GN)
A1	RQT1377-M	INSTRUCTION MANUAL	(PX)
A2	RQA0013	WARRANTY CARD	(EB, EG)
A2	RQX7433ZA	WARRANTY CARD	(GN)
A2	SQX7071-1	WARRANTY CARD	(PX)
A2	SQX7179	WARRANTY CARD	(P)
A2	SQX7183	WARRANTY CARD	(PC)
A3	RQCB0169	SERVICENTER LIST	(EB, EG, GC, GN)
A3	SQX9129-1	SERVICENTER LIST	(P)
A3	SQX9131	SERVICENTER LIST	(PC)
A4	RJA0004	AC POWER SUPPLY CORD	(GC, PX) ⚠
A4	RJA0019-1K	AC POWER SUPPLY CORD	(EG) ⚠
A4	SJA172	AC POWER SUPPLY CORD	(PC) ⚠
A4	SJA173	AC POWER SUPPLY CORD	(GN) ⚠
A4	SJA175-1	AC POWER SUPPLY CORD	(P) ⚠
A4	SJA193	AC POWER SUPPLY CORD	(EB) ⚠
A5	SJP2249-3	STEREO CONNECTION CABLE	
A6	SJP2257T	STEREO MINI CABLE	
A7	SJP9215	POWER PLUG ADAPTOR	(GC, PX) ⚠
A8	RQLA0134	CAUTION LABEL(VOL. SELECTOR)	(GC, PX)
A9	RQLA0053	CAUTION LABEL	(PX)

EXPLODED VIEWS

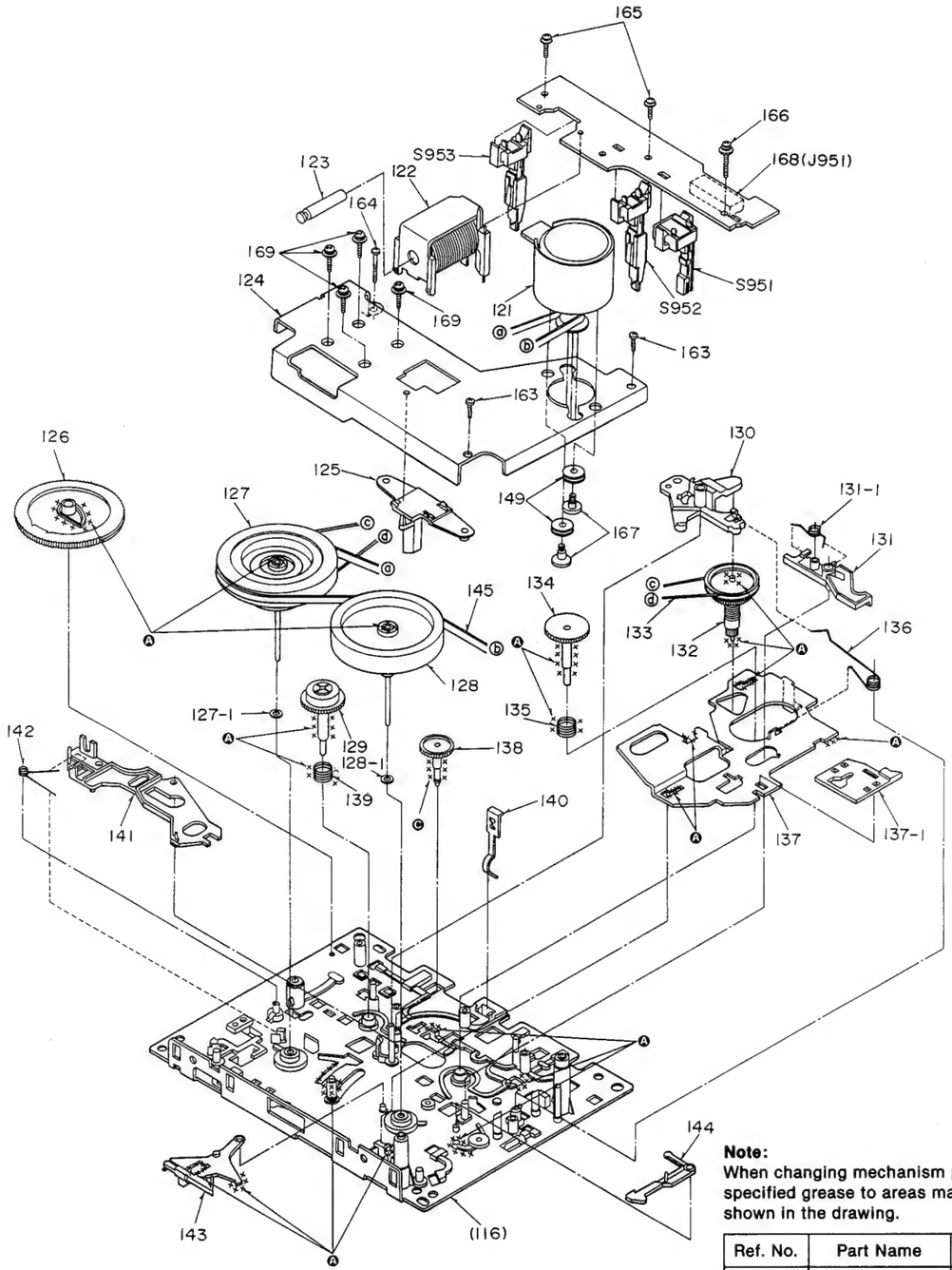


- **Mechanical parts**
- **DECK 1**

(Top view)



(Bottom view)



Note:
When changing mechanism parts, apply the specified grease to areas marked "× ×" as shown in the drawing.

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL AK-152	SZZ0L18
Ⓒ	FLOIL947P	RZZ0L02

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST	
DECK1			
101	RXQ0021	HEAD BLOCK(PLAYBACK)	
102	RUA793ZF	HEAD BASE	
103	RZLAR300A	ROD	
103-1	RUW143ZA	SPRING	
104	1UB0089ZA	ARM	
104-1	RUW148ZA	SPRING	
105	1DMD018ZB	REEL TABLE(R)	
106	1DMD017ZB	REEL TABLE(F)	
107	RML0069-1	LEVER	
108	RDG5772ZC	GEAR	
109	RUB508ZB	BRAKE ROD	
110	RUB506ZB	LEVER	
111	1UB0088ZB	ARM(R)	
111-1	RUW141ZA	SPRING	
112	1UB0087ZB	ARM(F)	
112-1	RUW140ZC	SPRING	
114	RNL1ZD	DAMPER ARM	
115	RUB503ZD	MAIN LEVER	
116	RZUSX980	CHASSIS	
117	RUW142ZA	SPRING	
118	RUD105ZA	SPRING	
120	RUW139ZA	SPRING	
121	RFM133ZA	DC MOTOR	
122	1UE0015ZB	PLUNGER	
123	RUB428ZE	MOVING IRON CORE	
124	RUL1030XB	ANGLE	
125	RMD5014ZC	ANGLE	
126	RDG5927ZG	GEAR	
127	1DW0053ZB	FLYWHEEL(F)	
127-1	RNW139ZA	WASHER	
128	1DW0054ZB	FLYWHEEL(R)	
128-1	RNW138ZA	WASHER	
129	1DG0006ZB	REEL TABLE GEAR	
130	RUB513ZD	ARM	
131	1UB0091ZA	LEVER	
131-1	RUW146ZA	SPRING	
132	1DR0011ZB	MAIN PULLEY	
133	RDV90ZB	BELT	
134	RDG5769ZA	REEL TABLE GEAR	
135	RUQ111ZB	SPRING	
136	RUW145ZA	SPRING	
137	1UB0090ZA	ROD	
137-1	RUB512ZB	ROD	
138	RDG5773ZB	GEAR	
139	RUQ112ZA	SPRING	
140	RUS609ZC	TAPE PRESSURE SPRING	
141	RUB514ZC	LEVER	
142	RUW147ZA	SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
143	RUB515ZA	LEVER	
144	RUB509ZA	LEVER	
145	RDV0015	CAPSTAN BELT	
146	RUB507ZD	EJECT ROD(R)	
148	RUW144ZA	SPRING	
149	RHG3032ZA	RUBBER CUSHION	
150	RNL180ZB	DAMPER ARM	
151	REX0061	LEAD WIRE BLOCK(4P)	
161	XTW2+6L	SCREW	
163	XTN26+7J	SCREW	
164	RHE5203ZA	SCREW	
165	XTW2+8S	SCREW	
166	XYC2+JF16	SCREW	
167	RHD26002	SCREW	
168	RJS7T7ZA	CONNECTOR(7P), J951	
169	RHD26003	SCREW	

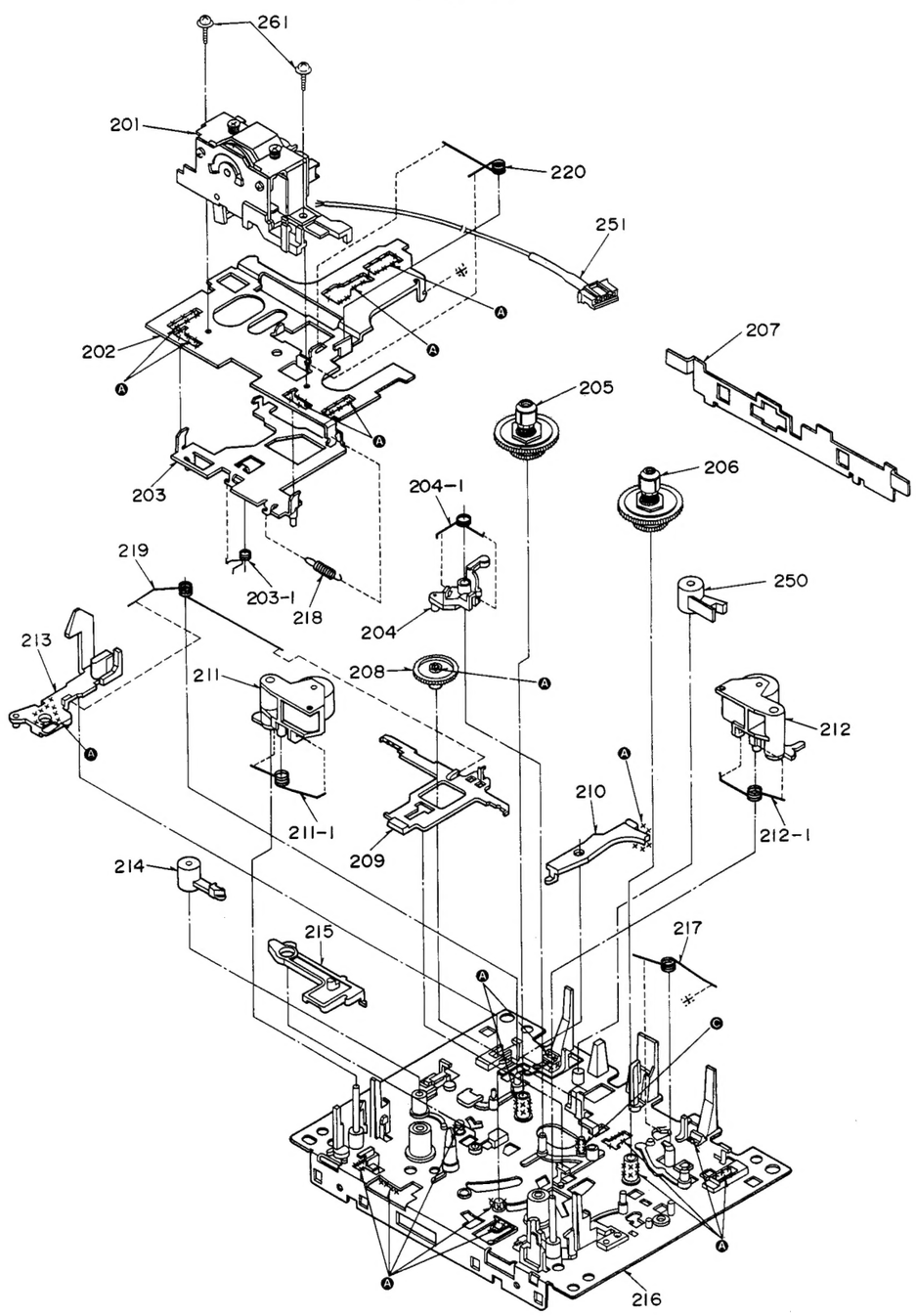
Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST	
DECK2			
201	RXQ0019	HEAD BLOCK(REC. /PLAYBACK)	
202	RUA793ZF	HEAD BASE	
203	RZLAR300A	ROD	
203-1	RUW143ZA	SPRING	
204	1UB0089ZA	ARM	
204-1	RUW148ZA	SPRING	
205	1DM0018ZB	REEL TABLE(R)	
206	1DM0017ZB	REEL TABLE(F)	
207	RML0069-1	LEVER	
208	RDG5772ZC	GEAR	
209	RUB508ZB	BRAKE ROD	
210	RUB506ZB	LEVER	
211	1UB0088ZB	ARM(R)	
211-1	RUW141ZA	SPRING	
212	1UB0087ZB	ARM(F)	
212-1	RUW140ZC	SPRING	
213	RUB541ZB	EJECT ROD(L)	
214	RNL1ZD	DAMPER ARM	
215	RUB503ZD	MAIN LEVER	
216	RZUSX980	CHASSIS	
217	RUW142ZA	SPRING	
218	RUD105ZA	SPRING	
219	RUW167ZA	SPRING	
220	RUW139ZA	SPRING	
221	RFM133ZA	DC MOTOR	
222	1UE0015ZB	PLUNGER	
223	RUB428ZE	MOVING IRON CORE	
224	RUL1030XB	ANGLE	
225	RMD5014ZC	ANGLE	
226	RDG5927ZG	GEAR	
227	1DW0053ZB	FLYWHEEL(F)	
227-1	RNW139ZA	WASHER	
228	1DW0054ZB	FLYWHEEL(R)	
228-1	RNW138ZA	WASHER	
229	1DG0006ZB	REEL TABLE GEAR	
230	RUB513ZD	ARM	
231	1UB0091ZA	LEVER	
231-1	RUW146ZA	SPRING	
232	1DR0011ZB	MAIN PULLEY	
233	RDV90ZB	BELT	
234	RDG5769ZA	REEL TABLE GEAR	
235	RUQ111ZB	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD	
237-1	RUB512ZB	ROD	
238	RDG5773ZB	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609ZC	TAPE PRESSURE SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
241	RUB514ZC	LEVER	
242	RUW147ZA	SPRING	
243	RUB515ZA	LEVER	
244	RUB509ZA	LEVER	
245	RDV0015	CAPSTAN BELT	
249	RHG3032ZA	RUBBER CUSHION	
250	RNL180ZB	DAMPER ARM	
251	REX0059	LEAD WIRE BLOCK(5P)	
261	XTW2+6L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26002	SCREW	
268	RJS10T77A	CONNECTOR(10P), J971	
269	RHD26003	SCREW	

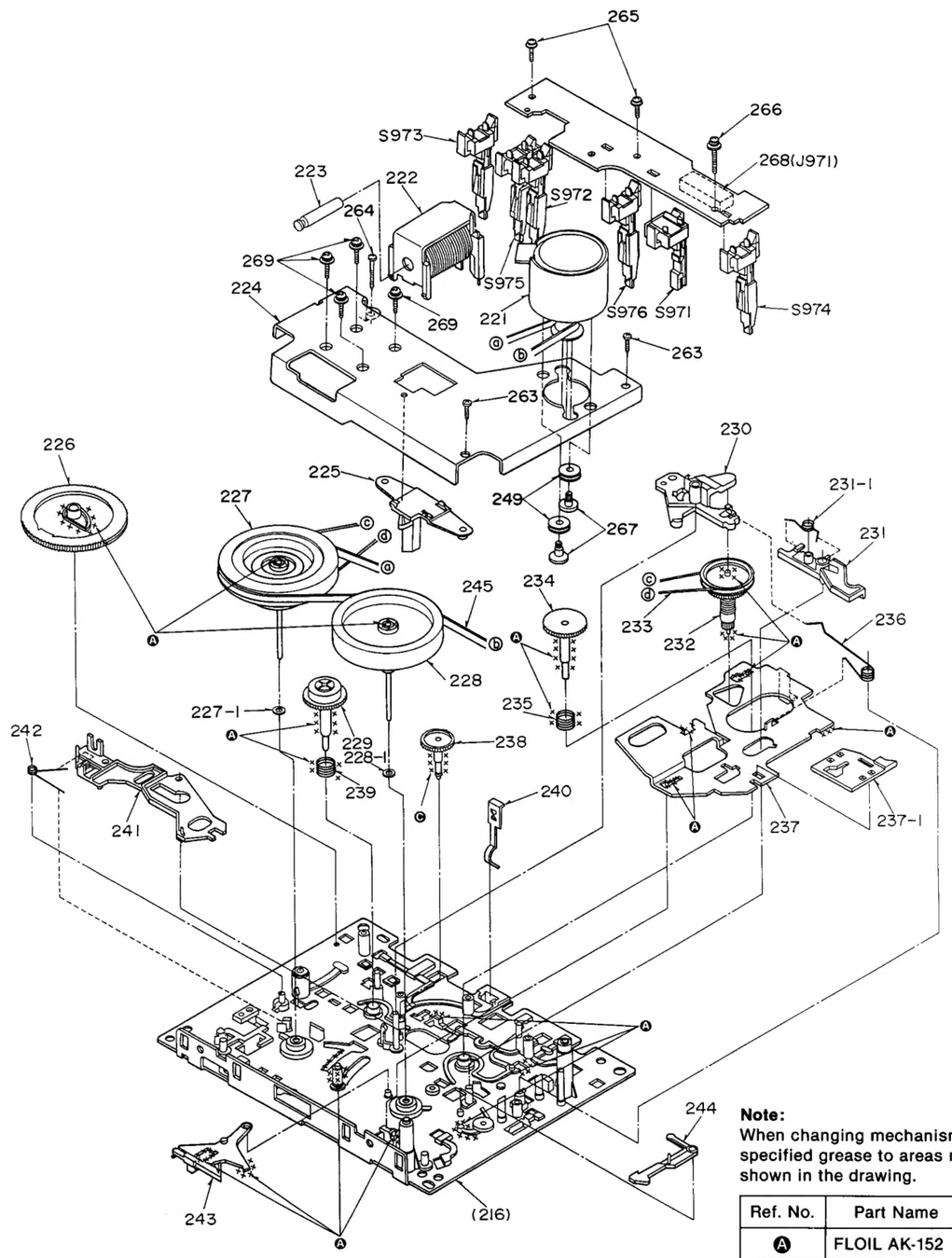
■EXPLODED VIEW

- **Mechanical parts**
- **DECK 2**

(Top view)



(Bottom view)



Note:
When changing mechanism parts, apply the specified grease to areas marked "× ×" as shown in the drawing.

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL AK-152	SZZ0L18
Ⓒ	FLOIL947P	RZZ0L02

■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	AN7384	ELECTRIC VOLUME	
IC2	AN7351K	PLAYBACK/REC AMP	
IC3	M5218L	HEADPHONES AMP	
IC4	M5218L	SIGNAL LEVEL DET.	
IC351	UPC1297CA	DOLBY HX PRO	
IC401	CXA1331S	DOLBY B/C NR	
IC801	M5218L	TPS AMP	
IC901	M50942-510SP	MICROCOMPUTER	
IC902	M50253P	SYSTEM CONTROL	
IC951	LB9051A-WD	HALL(DECK1)	
IC971	LB9051A-WD	HALL(DECK2)	
		TRANSISTOR(S)	
Q1-4	2SJ164PQRTA	TRANSISTOR	
Q5-8	2SA1309A-R	TRANSISTOR	
Q9-14	2SC3311A-Q	TRANSISTOR	
Q15, 16	2SD1450RSTA	TRANSISTOR	
Q351, 352	2SC3311A-Q	TRANSISTOR	
Q353	2SA1309A-R	TRANSISTOR	
Q354	KSD471ACYGTA	TRANSISTOR	
Q355	2SB1357EFTA	TRANSISTOR	
Q356-358	2SA1309A-R	TRANSISTOR	
Q401-404	2SC3311A-Q	TRANSISTOR	
Q601	2SA1309A-R	TRANSISTOR	⚠
Q602	2SC3311A-Q	TRANSISTOR	⚠
Q603	2SD2037EFTA	TRANSISTOR	
Q604	2SB1357EFTA	TRANSISTOR	
Q605	2SD2037EFTA	TRANSISTOR	
Q606	2SB621A-R	TRANSISTOR	
Q607	2SD2037EFTA	TRANSISTOR	
Q608	2SB1357EFTA	TRANSISTOR	
Q701	2SC3311A-Q	TRANSISTOR	
Q801	2SC3311A-Q	TRANSISTOR	
Q901	2SC3311A-Q	TRANSISTOR	
Q902	DTA114ESTP	TRANSISTOR	
Q904, 905	DTA144ESTP	TRANSISTOR	
Q906	DTA114ESTP	TRANSISTOR	
Q907	2SA1309A-R	TRANSISTOR	
Q909	2SB621A-R	TRANSISTOR	
Q910	2SC3311A-Q	TRANSISTOR	
Q911, 912	DTC114ESTP	TRANSISTOR	
Q913	2SB621A-R	TRANSISTOR	⚠
Q914	DTC114ESTP	TRANSISTOR	
Q915	2SA1309A-R	TRANSISTOR	
Q916	DTC114ESTP	TRANSISTOR	
Q917	2SB621A-R	TRANSISTOR	⚠
Q918	DTC114ESTP	TRANSISTOR	
Q919	2SB621A-R	TRANSISTOR	⚠
Q920	DTC114ESTP	TRANSISTOR	
Q921	2SA1309A-R	TRANSISTOR	
Q922	DTC114ESTP	TRANSISTOR	
Q923	2SB621A-R	TRANSISTOR	⚠
Q924	DTC114ESTP	TRANSISTOR	
		DIODE(S)	
D1, 2	MA167	DIODE	
D3, 4	MA165	DIODE	
D351, 352	MA165	DIODE	
D353	MTZJ5R6BTA	DIODE	
D354, 355	MA165	DIODE	
D601-607	1SR35200TB	DIODE	⚠
D608	MA165	DIODE	
D609	MTZJ6R2BTA	DIODE	
D610	MTZJ22DTA	DIODE	
D612, 613	MTZJ9R1CTA	DIODE	
D614-616	1SR35200TB	DIODE	⚠
D801	MA165	DIODE	
D901-907	MA165	DIODE	
D912, 913	MA165	DIODE	⚠
D914, 915	MA165	DIODE	
D916, 917	1SR35200TB	DIODE	
D918, 919	MA165	DIODE	
D922-927	MA165	DIODE	
D928	MTZJ5R1BTA	DIODE	
D929-931	MA165	DIODE	
D951	RVD1SS133TA	DIODE	
D971	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR1-4	EVNDXAA00B24	PLAYBACK GAIN ADJ.	
VR5, 6	EVNDXAA00B14	OVERALL GAIN ADJ.	
VR351	EVNDXAA00B53	ERASE CURRENT ADJ.	
VR352, 353	EVNDXAA00B14	OVERALL FREQ. ADJ.	
VR701	EVJ02FF02B15	REC LEVEL CONTROL	
VR702	EVJ02SF02G15	BALANCE	
VR703	EVJ02KF02B53	BIAS CONTROL ADJ.	
VR901-903	EVNDXAA00B53	TAPE SPEED ADJ.	

Ref. No.	Part No.	Part Name & Description	Remarks
		COIL(S)	
L1, 2	SLQX272-1YT	COIL	
L3, 4	SLQX303-1KT	COIL	
L5, 6	RLQB103JT-Y	COIL	
L351	SL09B4-K	COIL	
L352, 353	SL09B1-Z	COIL	
L401, 402	QLM9Z10K	COIL	
		TRANSFORMER(S)	
T1	RTP1K4C008-V	POWER TRANSFORMER	(P, PC)⚠
T1	RTP1K4E014-V	POWER TRANSFORMER	(EB, EG, GN)⚠
T1	RTP1K4E015-V	POWER TRANSFORMER	(GC, PX)⚠
		OSCILLATOR(S)	
X901	EFOGC4004A4	CERAMIC FILTER(4MHz)	
		DISPLAY TUBE(S)	
FL701	RSL0100-F	DISPLAY TUBE	⚠
		SWITCH(ES)	
S701	SSH1238	POWER	⚠
S703	EVQ21405R	AUTO REC MUTE(DECK2)	
S704	EVQ21405R	STOP(DECK2)	
S705	EVQ21405R	F. F. <TPS>(DECK2)	
S706	EVQ21405R	REW. <TPS>(DECK2)	
S707	EVQ21405R	F. PLAYBACK(DECK2)	
S708	EVQ21405R	R. PLAYBACK(DECK2)	
S709	EVQ21405R	REC(DECK2)	
S710	EVQ21405R	PAUSE(DECK2)	
S711	EVQ21405R	SYNCHRO START	
S712	EVQ21405R	EDITING TAPE SPEED(X1)	
S713	EVQ21405R	EDITING TAPE SPEED(X2)	
S714	EVQ21405R	DOLBY NR B	
S715	EVQ21405R	DOLBY NR C	
S716	EVQ21405R	STOP(DECK1)	
S717	EVQ21405R	F. F. <TPS>(DECK1)	
S718	EVQ21405R	REW. <TPS>(DECK1)	
S719	EVQ21405R	F. PLAYBACK(DECK1)	
S720	EVQ21405R	R. PLAYBACK(DECK1)	
S723-725	EVQ21405R	REVERSE MODE	
S726	EVQ21405R	COUNTER RESET2(DECK2)	
S727	EVQ21405R	COUNTER RESET1(DECK1)	
S951	RSH1A89ZB-U	MODE(DECK1)	
S952	RSH1A90YB-U	HALF(DECK1)	
S953	RSH1A90YB-U	ATS(DECK1)	
S971	RSH1A89ZB-U	MODE(DECK2)	
S972	RSH1A90YB-U	HALF(DECK2)	
S973	RSH1A90YB-U	R. REC INH. (DECK2)	
S974	RSH1A90YB-U	F. REC INH. (DECK2)	
S975, 976	RSH1A90YB-U	ATS(DECK2)	
		CONNECTOR(S) AND SOCKET(S)	
CN2P	SJT30643-V	CONNECTOR(6P)	
CN2PA	RJS1A6603	CONNECTOR(3P)	
CN2PB	RJS1A6603	CONNECTOR(3P)	
CN3	SJSD1005	CONNECTOR(10P)	
CN4	RJS1A6604	CONNECTOR(4P)	
CN5	RJS7T4ZA	CONNECTOR(7P)	
CN6	RJS1A6604	CONNECTOR(4P)	
CN7-9	RJU003K010M1	SOCKET(10P)	
CN10A	RJS1A6604	CONNECTOR(4P)	
CN10B	RJS1A6603	CONNECTOR(3P)	
CN11, 12	SJS50581BB	SOCKET(5P)	
CN19A	RJS1A6603	CONNECTOR(3P)	
CN19B	RJS1A6603	CONNECTOR(3P)	
CN20	SJS50581BB	SOCKET(5P)	
CP1	SJTD413	CONNECTOR(4P)	
CP2	RJP5G18ZA	CONNECTOR(5P)	
CP7-9	RJT003K010M1	CONNECTOR(10P)	
CP11, 12	SJT30548BB1	CONNECTOR(5P)	
CP20	SJT30548BB1	CONNECTOR(5P)	
		JACK(S)	
JK1	SJF3069N	TERMINAL BOARD	
JK3	RJJ33T01	M3 JACK(BLACK)	
JK4, 5	RJJ33TR01	M3 JACK(RED)	
JK701	SJSD16	AC INLET	(P, PC, GN)⚠
JK701	SJS9236	AC INLET	(EB, EG, GC, PX)⚠
JK702	SJS9331B	AC OUTLET	(P, PC)⚠
JK703	SSR187-1	VOLTAGE SELECTOR	(GC, PX)⚠
JK711	SJJ146B	HEADPHONES JACK	
		GND PART(S)	
E1	SNE1004-1	GND PLATE	
E3	SUSD165	GND SPRING	
		FLAT CABLE(S)	
W2P	RWJ1806110QQ	FLAT CABLE(6P)	
W3	RWJ5710200QQ	FLAT CABLE(10P)	
W4	RWJ1804160QQ	FLAT CABLE(4P)	
W5	RWJ5707200QQ	FLAT CABLE(7P)	
W6	RWJ1804160QQ	FLAT CABLE(4P)	
W10	RWJ1807300KQ	FLAT CABLE(7P)	
W19	RWJ1806130KQ	FLAT CABLE(6P)	
W701	RWJ1804040EE	FLAT CABLE(4P)	

■ RESISTORS & CAPACITORS

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1, 2	ERDS2TJ394	1/4W 390K
R3, 4	ERDS2TJ393	1/4W 39K
R5, 6	ERDS2TJ183T	1/4W 18K
R7, 8	ERDS2TJ225	1/4W 2.2M
R9, 10	ERDS2TJ332	1/4W 3.3K
R11, 12	ERDS2TJ102	1/4W 1K
R13, 14	ERDS2TJ332	1/4W 3.3K
R15, 16	ERDS2TJ561	1/4W 560
R17, 18	ERDS2TJ101	1/4W 100
R19, 20	ERDS2TJ103	1/4W 10K
R21, 22	ERDS2TJ225	1/4W 2.2M
R23, 24	ERDS2TJ104	1/4W 100K
R25-28	ERDS2TJ101	1/4W 100
R29, 30	ERDS2EJ121	1/4W 120
R31, 32	ERDS2TJ273	1/4W 27K
R33, 34	ERDS2TJ183T	1/4W 18K
R35, 36	ERDS2TJ394	1/4W 390K
R37, 38	ERDS2TJ272T	1/4W 2.7K
R39	ERDS2TJ223	1/4W 22K
R40	ERDS2TJ392T	1/4W 3.9K
R41, 42	ERDS2TJ223	1/4W 22K
R43, 44	ERDS2TJ472	1/4W 4.7K
R45, 46	ERDS2TJ562	1/4W 5.6K
R47, 48	ERDS2TJ103	1/4W 10K
R49, 50	ERDS2TJ332	1/4W 3.3K
R51, 52	ERDS2TJ122	1/4W 1.2K
R53, 54	ERDS2TJ330	1/4W 33
R55, 56	ERDS2TJ562	1/4W 5.6K
R57, 58	ERDS2TJ152	1/4W 1.5K
R59, 60	ERDS2TJ272T	1/4W 2.7K
R61, 62	ERDS2TJ103	1/4W 10K
R63, 64	ERDS2TJ104	1/4W 100K
R65, 66	ERDS2TJ393	1/4W 39K
R67, 68	ERDS2TJ124T	1/4W 120K
R69, 70	ERDS2TJ220T	1/4W 22
R71, 72	ERDS2TJ152	1/4W 1.5K
R83, 84	ERDS2TJ104	1/4W 100K
R85, 86	ERDS2TJ183T	1/4W 18K
R301	ERDS2TJ1R0	1/4W 1.0
R352, 353	ERDS2TJ183T	1/4W 18K
R354, 355	ERDS2TJ100	1/4W 10
R356	ERDS2TJ471	1/4W 470
R357, 358	ERDS2TJ102	1/4W 1K
R361, 362	ERDS2TJ101	1/4W 100
R363, 364	ERDS2TJ154	1/4W 150K
R365, 366	ERDS2TJ153	1/4W 15K
R367	ERDS2TJ222	1/4W 2.2K
R368	ERDS2TJ102	1/4W 1K
R369	ERDS2TJ822	1/4W 8.2K
R370	ERDS2TJ563	1/4W 56K
R371	ERDS2TJ103	1/4W 10K
R372	ERDS2TJ563	1/4W 56K
R373	ERDS2TJ103	1/4W 10K
R374	ERDS2TJ332	1/4W 3.3K
R401-404	ERDS2TJ684	1/4W 680K
R405, 406	ERDS2TJ242	1/4W 2.4K
R407, 408	ERDS2TJ562	1/4W 5.6K
R409, 410	ERDS2TJ243T	1/4W 24K
R411, 412	ERDS2TJ561	1/4W 560
R413, 414	ERDS2TJ682T	1/4W 6.8K
R415, 416	ERDS2TJ562	1/4W 5.6K
R417	ERDS2TJ151	1/4W 150
R418	ERDS2TJ273	1/4W 27K
R603	ERDS2TJ472	1/4W 4.7K ⚠
R604	ERDS2TJ472	1/4W 4.7K
R605	ERDS2TJ103	1/4W 10K
R606	ERDS2TJ472	1/4W 4.7K ⚠
R607, 608	ERDS2TJ102	1/4W 1K
R609, 610	ERD2FCVG100T	1/4W 10 ⚠
R611, 612	ERDS2TJ101	1/4W 100
R613	ERD2FCVG330T	1/4W 33 ⚠
R614	ERDS2TJ222	1/4W 2.2K ⚠
R615	ERDS2TJ101	1/4W 100
R616	ERD2FCVG330T	1/4W 33 ⚠
R617	ERDS2TJ222	1/4W 2.2K ⚠
R618	ERDS2TJ181T	1/4W 180
R619, 620	ERDS2TJ100	1/4W 10 ⚠
R621, 622	ERD2FCVG100T	1/4W 10 ⚠
R623, 624	ERDS2TJ122	1/4W 1.2K ⚠
R625, 626	ERDS2TJ820	1/4W 82
R633, 634	ERD2FCVG330T	1/4W 33 ⚠
R637	ERDS1FVJ150T	1/2W 15 ⚠
R701	ERDS2TJ821	1/4W 820
R702	ERDS2TJ102	1/4W 1K
R703	ERDS2TJ122	1/4W 1.2K
R704	ERDS2TJ152	1/4W 1.5K
R705	ERDS2TJ182	1/4W 1.8K
R706	ERDS2TJ222	1/4W 2.2K
R707	ERDS2TJ332	1/4W 3.3K
R708	ERDS2TJ472	1/4W 4.7K
R709	ERDS2TJ682T	1/4W 6.8K
R710	ERDS2TJ123	1/4W 12K
R711	ERDS2TJ223	1/4W 22K
R712	ERDS2TJ683	1/4W 68K
R713	ERDS2TJ821	1/4W 820
R714	ERDS2TJ102	1/4W 1K
R715	ERDS2TJ122	1/4W 1.2K
R716	ERDS2TJ152	1/4W 1.5K
R717	ERDS2TJ182	1/4W 1.8K
R718	ERDS2TJ222	1/4W 2.2K
R719	ERDS2TJ332	1/4W 3.3K
R720	ERDS2TJ472	1/4W 4.7K
R721	ERDS2TJ682T	1/4W 6.8K
R722	ERDS2TJ123	1/4W 12K
R723	ERDS2TJ153	1/4W 15K
R724, 725	ERDS2TJ102	1/4W 1K
R726, 727	ERDS2TJ562	1/4W 5.6K
R801	ERDS2TJ122	1/4W 1.2K
R802	ERDS2TJ101	1/4W 100
R803	ERDS2TJ823T	1/4W 82K
R804	ERDS2TJ393	1/4W 39K
R805	ERDS2TJ562	1/4W 5.6K
R806	ERDS2TJ102	1/4W 1K
R807	ERDS2TJ473	1/4W 47K
R808	ERDS2TJ123	1/4W 12K
R809	ERDS2TJ103	1/4W 10K
R901	ERDS2TJ472	1/4W 4.7K
R902	ERDS2TJ822	1/4W 8.2K
R903	ERDS2TJ472	1/4W 4.7K
R904	ERDS2TJ122	1/4W 1.2K
R905	ERDS2TJ103	1/4W 10K
R906	ERDS2TJ123	1/4W 12K
R907, 908	ERDS2TJ472	1/4W 4.7K
R909	ERDS2TJ332	1/4W 3.3K
R910	ERDS2TJ272T	1/4W 2.7K
R911	ERDS2TJ392T	1/4W 3.9K
R912-914	ERDS2TJ103	1/4W 10K
R918	ERDS2TJ472	1/4W 4.7K
R919	ERDS2TJ223	1/4W 22K
R920	ERDS2TJ392T	1/4W 3.9K
R921	ERDS2TJ471	1/4W 470
R922, 923	ERDS2TJ103	1/4W 10K
R924	ERDS2TJ102	1/4W 1K
R925	ERDS2TJ105T	1/4W 1M
R926	ERDS2TJ223	1/4W 22K
R927	ERDS2TJ472	1/4W 4.7K
R928-930	ERDS2TJ103	1/4W 10K
R931, 932	ERDS2TJ102	1/4W 1K
R933	ERDS2TJ182	1/4W 1.8K
R934	ERDS2TJ272T	1/4W 2.7K
R935, 936	ERDS2TJ100	1/4W 10
R937-941	ERDS2TJ472	1/4W 4.7K
R942	ERDS2TJ822	1/4W 8.2K
R943	ERDS2TJ223	1/4W 22K ⚠

Ref. No.	Part No.	Values & Remarks
R944	ERDS2TJ821	1/4W 820
R945	ERDS2TJ221	1/4W 220
R946	ERDS2TJ103	1/4W 10K
R947	ERDS2TJ392T	1/4W 3.9K
R948	ERDS2TJ184T	1/4W 180K
R949	ERDS2TJ103	1/4W 10K
R950	ERDS2TJ223	1/4W 22K ⚠
R951	ERDS2TJ821	1/4W 820
R952	ERDS2TJ223	1/4W 22K ⚠
R953	ERDS2TJ821	1/4W 820
R954	ERDS2TJ103	1/4W 10K
R955	ERDS2TJ332	1/4W 3.3K
R956	ERDS2TJ103	1/4W 10K
R957	ERDS2TJ392T	1/4W 3.9K
R958	ERDS2TJ184T	1/4W 180K
R959	ERDS2TJ103	1/4W 10K
R960	ERDS2TJ223	1/4W 22K ⚠
R962	ERDS2TJ223	1/4W 22K
R963	ERDS2TJ562	1/4W 5.6K
R964	ERDS2TJ331	1/4W 330
R965	ERDS2TJ153	1/4W 15K
R966	ERDS2TJ821	1/4W 820
R967	ERDS2TJ563	1/4W 56K
R968-970	ERDS2TJ472	1/4W 4.7K
R977	ERDS2TJ222	1/4W 2.2K
R979	ERDS2TJ103	1/4W 10K
R982	ERDS2TJ473	1/4W 47K
R983	ERDS2TJ122	1/4W 1.2K
R984	ERDS2TJ272T	1/4W 2.7K
R985	ERDS2TJ102	1/4W 1K
R986	ERDS2TJ821	1/4W 820
R988	ERDS2TJ222	1/4W 2.2K
R989, 990	ERDS2TJ103	1/4W 10K
R991	ERDS2TJ223	1/4W 22K
R992	ERDS2TJ272T	1/4W 2.7K
R993	ERDS2TJ103	1/4W 10K
R994	ERDS2TJ472	1/4W 4.7K
R995	ERDS2TJ103	1/4W 10K
R999	ERDS2TJ103	1/4W 10K
		CAPACITORS
C1-4	ECEA1HKA010B	50V 1U
C5, 6	ECEA1CKA220B	16V 22U
C7, 8	ECEA1CKA100B	16V 10U
C9, 10	ECBT1H471KB5	50V 470P
C11, 12	ECBT1H102KB5	50V 1000P
C13, 14	ECEA1AU101	10V 100U
C15, 16	ECQB1H822JF3	50V 8200P
C17-20	ECEA1EKA4R7B	25V 4.7U
C21, 22	ECBT1H471KB5	50V 470P
C23	ECBT1H102KB5	50V 1000P

Ref. No.	Part No.	Values & Remarks
C24	ECEA1AU101	10V 100U
C25, 26	ECQB1H472JF3	50V 4700P
C27, 28	ECQB1H223JF3	50V 0.022U
C29, 30 —	ECQB1H103JF3	50V 0.01U
C31, 32	ECQB1H223JF3	50V 0.022U
C33, 34	ECQV1H563JZ3	50V 0.056U
C35, 36	ECQB1H153JF3	50V 0.015U
C37, 38	ECBT1H181KB5	50V 180P
C39, 40	ECEA1HKAR47B	50V 0.47U
C41, 42	ECQB1H153JF3	50V 0.015U
C43, 44	ECEA1EKA4R7B	25V 4.7U
C45, 46	ECBT1H561KB5	50V 560P
C47, 48	ECKR2H121KB5	500V 120P
C49, 50	ECQV1H104JZ3	50V 0.1U
C51, 52	ECEA1CKA470B	16V 47U
C53, 54	ECBT1H391KB5	50V 390P
C55, 56	ECBT1C472KR5	16V 4700P
C57, 58	ECQB1H153JF3	50V 0.015U
C351	ECQP1153JZ	100V 0.015U
C352	ECEA1EKA4R7B	25V 4.7U
C353	ECKR1H392KB5	50V 3900P
C354, 355	ECKW1H222KB5	50V 2200P
C356	ECKD1H682KB	50V 6800P
C357	ECKR1H103ZF5	50V 0.01U
C358	ECEA1AU221	10V 220U
C359	ECKR1H103ZF5	50V 0.01U
C360	ECKR1H472KB5	50V 4700P
C361	ECKR1H103ZF5	50V 0.01U
C363, 364	ECKT1H223ZF	50V 0.022U
C365, 366	ECKR2H821KB5	500V 820P
C367, 368	ECBT1H121KB5	50V 120P
C369, 370	ECQV1H473JZ3	50V 0.047U
C371, 372	ECQB1H223JF3	50V 0.022U
C373, 374	ECQB1H103JF3	50V 0.01U
C375, 376	ECKT1H122KB	50V 1200P
C377	ECEA1CKA100B	16V 10U
C378, 379	ECCF1H220K	50V 22P
C381	ECBT1E103ZF	25V 0.01U
C401, 402	ECKT1H122KB	50V 1200P
C403, 404	ECKD1H152KB	50V 1500P
C405-408	ECQB1H222JF3	50V 2200P
C409, 410	ECEA1HJR56B	50V 0.56U
C411, 412	ECEA1HKAR33B	50V 0.33U
C413, 414	ECEA1EKA4R7B	25V 4.7U
C415, 416	ECEA1CKA100B	16V 10U
C601	ECKR2H682PE	500V 6800P ⚠
C603, 604	ECA1EM102B	25V 1000U ⚠
C605	ECEA1EU222B	25V 2200U ⚠
C606	ECKR2H682PE	500V 6800P ⚠
C607, 608	ECEA1AU471	10V 470U
C609, 610	ECKR1H103ZF5	50V 0.01U
C612	ECA1HM470B	50V 47U ⚠

Ref. No.	Part No.	Values & Remarks
C613, 614	ECKR1H103ZF5	50V 0.01U
C615, 616	ECEA1VU220	35V 22U ⚠
C617, 618	ECKR1H103ZF5	50V 0.01U
C619, 620	ECA1AM102B	10V 1000U
C621, 622	ECEA1CKA470B	16V 47U
C623, 624	ECBT1E103ZF	25V 0.01U
C625, 626	ECKR1H103ZF5	50V 0.01U
C701	ECKR1H103ZF5	50V 0.01U
C702	ECBT1E103ZF	25V 0.01U
C801	ECQB1H822JF3	50V 8200P
C802	ECEA1CKA100B	16V 10U
C803	ECCR1H470K5	50V 47P
C804	ECEA1HKA2R2B	50V 2.2U
C901	ECA0JM222B	6.3V 2200U
C902, 903	ECKR1H103ZF5	50V 0.01U
C904	ECEA1EKA4R7B	25V 4.7U
C905	ECEA1HKA010B	50V 1U
C906	ECEA1CKA220B	16V 22U
C907	ECKR1H103ZF5	50V 0.01U

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